



# R-S700/R-S500

Receiver

# **IMPORTANT SAFETY INSTRUCTIONS**



#### CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



• Explanation of Graphical Symbols

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

#### **IMPORTANT**

Please record the serial number of this unit in the space below.

MODEL:

Serial No .:

The serial number is located on the rear of the unit. Retain this Owner's Manual in a safe place for future reference.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

# We Want You Listening For A Lifetime

Yamaha and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing. Since hearing damage from loud sounds is often undetectable until it is too late, Yamaha and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.



#### **FCC INFORMATION (for US customers)**

# 1 IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

- 2 IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- 3 NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s

In the case of radio or TV interference, relocate/ reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., USA 6660 Orangethorpe Ave., Buena Park, CA 90620.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

# CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

- 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- 2 Install this sound system in a well ventilated, cool, dry, clean place away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. For proper ventilation, allow the following minimum clearances around this unit.

Top: 30 cm (11-3/4 in) Rear: 20 cm (7-7/8 in) Sides: 20 cm (7-7/8 in)

- 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- 5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
  - Other components, as they may cause damage and/or discoloration on the surface of this unit.
  - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
  - Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.
- 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- 7 Do not plug in this unit to a wall outlet until all connections are complete.
- 8 Do not operate this unit upside-down. It may overheat, possibly causing damage.
- 9 Do not use force on switches, knobs and/or cords.
- 10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.
- 11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. Yamaha will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- 13 To prevent damage by lightning, keep the power cable and outdoor antennas disconnected from a wall outlet or this unit during a lightning storm.
- 14 Do not attempt to modify or fix this unit. Contact qualified Yamaha service personnel when any service is needed. The cabinet should never be opened for any reasons.
- 15 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- 16 Be sure to read the "TROUBLESHOOTING" section on common operating errors before concluding that this unit is faulty.

- 17 Before moving this unit, press  $\circlearrowleft$  to set this unit to the standby mode, and disconnect the AC power plug from the wall outlet.
- 18 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave this unit alone.
- 19 When using this unit for a long time, this unit may become warm. Turn the power off, then leave this unit alone for cooling.
- 20 Install this unit near the AC outlet and where the AC power plug can be reached easily.
- 21 The batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- 22 Excessive sound pressure from earphones and headphones can cause hearing loss.

As long as this unit is connected to the AC wall outlet, it is not disconnected from the AC power source even if you set this unit to standby mode by  $\circlearrowleft$ . In this state, this unit is designed to consume a very small quantity of power.

#### WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

#### **CAUTION**

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.



This label is required to be attached to a product of which the temperature of the top cover may be hot during operation.

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# **USEFUL FEATURES**

This unit allows you to:

Improve sound quality by using the CD Direct Amp*1 and Pure Direct functions	<b>→</b>	p. 17
Play back music from your iPhone/iPod*2 or Bluetooth component*2	<b>→</b>	p. 35
Play back video content from your iPhone/iPod*1 *2	<b>→</b>	p. 36
Listen to SIRIUS Satellite Radio channels*3	<b>→</b>	p. 26
Listen to FM and AM radio stations	<b>→</b>	p. 20
Boost bass sounds by connecting a subwoofer	<b>→</b>	p. 12
Connect an external device*1 such as a graphic equalizer or a surround-sound processor	<b>=</b>	p. 15
Use this unit's remote control to operate other components such as a CD player, BD/DVD player or TV	<b>=</b>	p. 47
Save power by using the automatic power down function	<b>→</b>	p. 43
Use this unit to listen to another input source in two different rooms	<b>→</b>	p. 45

<sup>\*1</sup> R-S700 only

<sup>\*3</sup> Optional SiriusConnect tuner required



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#### iPhone, iPod

iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

#### Bluetooth™

Bluetooth is a registered trademark of the Bluetooth SIG and is used by Yamaha in accordance with a license agreement.

- = indicates a tip for your operation.
- This manual is the owner's manual for both the R-S700 and the R-S500. Model names are given where the details of functions are unique to each model. Generally, illustrations of the R-S700 are used for explanations.
- Some operations can be performed by using either the buttons on the front panel of this unit or those on the remote controls. In case
  the button names differ between this unit and the remote controls, the names of the buttons on the remote controls are given in
  parentheses.
- In case the buttons on the remote control and the Zone 2 remote control have certain functions in common, the illustrations of the buttons on the remote control are used for explanation throughout the manual.
- This manual is printed prior to production. Design and specifications are subject to change in part as a result of improvements, etc. In case of differences between the manual and the product, the product has priority.

<sup>\*2</sup> Optional Yamaha product required

# **SUPPLIED ACCESSORIES**

Please check that you received all of the following parts.

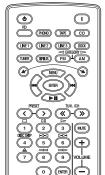
RECEIVER

SLEEP

(\$) TUN/O

#### Remote control

## Zone 2 remote control (R-S700 only)



**®YAMAHA** 



Power cable





#### AM loop antenna



Batteries (x2) (AAA, R03, UM-4)



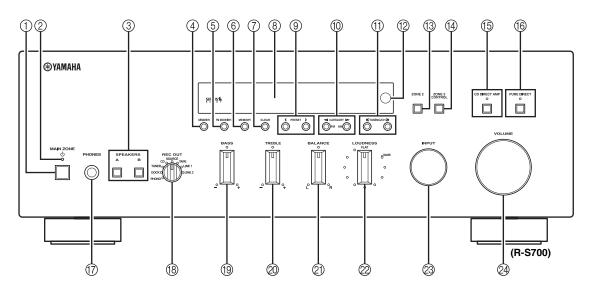
#### Notes on remote controls and batteries

- Do not spill water or other liquids on the remote control.
- Do not drop the remote control.

- Do not leave or store the remote control in the following conditions:
  - places of high humidity, such as near a bath
  - places of high temperatures, such as near a heater or stove
  - places of extremely low temperatures
  - dusty places
- Use AAA, R03, UM-4 batteries for the remote control.
- Use a CR2025 battery for the Zone 2 remote control (R-S700 only).
- Insert batteries according to the polarity markings (+ and -).
- Change all batteries if you notice the operation range of the remote control narrows.
- If the batteries run out, immediately remove them from the remote control to prevent an explosion or acid leak.
- If you find leaking batteries, discard the batteries immediately, taking care not to touch the leaked material. If the leaked material
  comes into contact with your skin or gets into your eyes or mouth, rinse it away immediately and consult a doctor. Clean the battery
  compartment thoroughly before installing new batteries.
- · Do not use old batteries together with new ones. This may shorten the life of the new batteries or cause old batteries to leak.
- Do not use different types of batteries (such as alkaline and manganese batteries) together. Batteries that look the same may have a different specification.
- · Before inserting new batteries, wipe the battery compartment clean.
- · Dispose of batteries according to your regional regulations.

# **CONTROLS AND FUNCTIONS**

### Front panel



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**ZONE** indicates buttons and controls that can also be used to control Zone 2. For more information about Zone 2, see pages 45 and 46.

#### 1 MAIN ZONE ()

Turns on this unit's Main Zone unit or sets the Main Zone to standby mode (see page 16).

#### Note

In standby mode, this unit consumes a small amount of power to receive infrared signals from the remote control.

#### ② MAIN ZONE indicator

Lights up as follows: Brightly lit: Power is on Dimly lit: Standby mode

#### Note

The MAIN ZONE indicator is brightly lit while an iPhone/iPod is charging.

#### ③ SPEAKERS A/B

Turns on or off the speaker set connected to the SPEAKERS A and/or SPEAKERS B terminals on the rear panel each time the corresponding button is pressed (see page 16).

#### (4) DIMMER

Changes the brightness level of the front panel display. Choose brightness from 3 levels by pressing this button repeatedly.

`\<u>\</u>'

This setting is retained even if you turn off this unit.

#### (5) FM MODE/INFO

Changes the FM radio wave reception mode (stereo or monaural) when TUNER is selected as the input source (see page 21).

Changes the SIRIUS Satellite Radio information displayed on the front panel display when SIRIUS is selected as the input source (see page 34).

Changes the playback information displayed about the song playing on the iPhone/iPod when DOCK is selected as the input source (see page 36).

#### Note

Playback information can only be displayed for an iPhone/iPod that is connected using a Universal Dock for iPod.

#### 6 MEMORY

Stores the current FM/AM station as a preset when TUNER is selected as the input source (see page 23). Stores the current SIRIUS channel as a preset when SIRIUS is selected as the input source (see page 30).

#### **⑦ CLEAR**

Clears the current FM/AM preset station when TUNER is selected as the input source (see page 24). Clears the current SIRIUS preset channel when SIRIUS is selected as the input source (see page 32).

#### 8 Front panel display

Shows information about the operational status of this unit.

#### 9 PRESET /> ZONE

Selects a preset FM/AM station when TUNER is selected as the input source (see page 24).

Selects a preset SIRIUS channel when SIRIUS is selected as the input source (see page 31).

#### **10) FM/CATEGORY** <**□**, AM/CATEGORY > **ZONE**

Sets the FM/AM tuner band to FM or AM when TUNER is selected as the input source (see page 20).

Selects a channel category when SIRIUS is selected as the input source (see page 29).

#### 11) TUNING/CH <</p>

Selects the tuning frequency when TUNER is selected as the input source (see page 20).

Searches for a SIRIUS channel when SIRIUS is selected as the input source (see page 29).

#### 12 Remote control sensor

Receives infrared signals from the remote control.

#### Note

Switch the remote control ID between ID1 and ID2 when using multiple Yamaha receivers or amplifiers (see page 44).

#### (13) **ZONE 2**

Turns on Zone 2 or sets ZONE 2 to standby mode. When Zone 2 is turned on, signals are output to the ZONE 2 OUT jacks (see page 45).

#### **14) ZONE 2 CONTROL**

Allows buttons and controls on the front panel to be used to control Zone 2. For more information about controlling Zone 2, see page 46.

#### (5) CD DIRECT AMP and indicator (R-S700 only)

Allows you to listen to a CD source in the purest possible sound (see page 17). The indicator lights up and the front panel display turns off when this function is turned on.

#### Notes

- If both the CD DIRECT AMP and the PURE DIRECT are turned on, only the CD DIRECT AMP will function.
- Zone 2 cannot be used while this function is turned on.

#### 16 PURE DIRECT and indicator

Allows you to listen to a source in the purest possible sound (see page 17). The indicator above it lights up and the front panel display turns off when this function is turned on.

#### Note

Zone 2 cannot be used while this function is turned on.

#### **17** PHONES jack

Outputs audio to your headphones for private listening.

#### Note

Press SPEAKER A/B so that the SP A/B indicators turn off before you connect your headphones to the PHONES jack.

#### (18) REC OUT selector

Selects a source for recording to a CD recorder or to a tape deck independently of the INPUT selector setting, allowing you to record the selected source while listening to another source (see page 19).

#### 19 BASS control

Increases or decreases the low frequency response. The center position produces a flat response (see page 18).

#### 20 TREBLE control

Increases or decreases the high frequency response. The center position produces a flat response (see page 18).

#### 21) BALANCE control

Adjusts the sound output balance of the left and right speakers to compensate for sound imbalances caused by speaker locations or listening room conditions (see page 18).

#### 2 LOUDNESS control

Retains a full tonal range at any volume level to compensate for the human ears' loss of sensitivity to high and low-frequency ranges at a low volume level (see page 18).

#### 23 INPUT selector ZONE

Selects the input source you want to listen to.

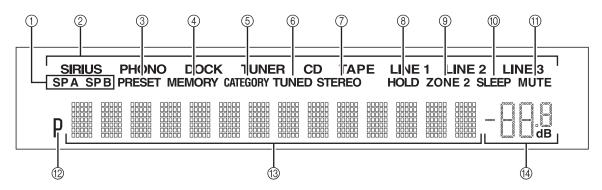
#### **24 VOLUME control (ZONE R-S700 only)**

Increases or decreases the sound output level.

#### Note

This does not affect the output level of the REC jacks.

# Front panel display



#### 1 SP (SPEAKERS) A/B indicators

Light up according to the set of speakers selected. Both indicators light up when both sets of speakers are selected.

#### ② Input source indicators

Light up brightly to indicate the input source that is currently selected.

#### ③ PRESET indicator

Lights up when you recall a preset radio station or SIRIUS channel. Blinks while the automatic station preset feature is scanning for FM stations to register as presets.

#### **4** MEMORY indicator

Lights up or blinks when an FM/AM station or SIRIUS channel is being stored as a preset.

#### (5) CATEGORY indicator

Lights up when searching for a SIRIUS channel by category.

#### 6 TUNED indicator

Lights up when this unit is tuned in to an FM or AM station.

#### 7) STEREO indicator

Lights up when this unit is receiving a strong signal for an FM stereo broadcast.

#### (8) **HOLD** indicator

Blinks when the hold function is used to display the artist name, song title, etc. while listening to a SIRIUS channel.

#### 9 ZONE 2 indicator

Lights up when Zone 2 is turned on.

#### SLEEP indicator

Lights up when the sleep timer is turned on.

#### **MUTE indicator**

Blinks while the MUTE function is turned on.

#### 12 P indicator

Lights up when a preset number is selected. Blinks while you are registering a preset radio station or SIRIUS channel.

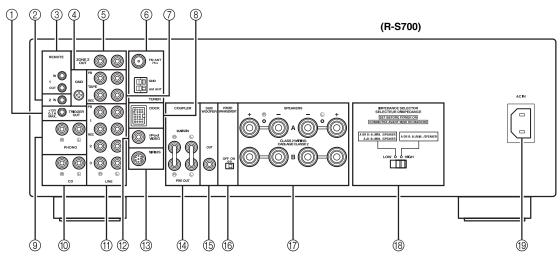
#### (3) Multi-information display

Shows information when adjusting or changing settings.

#### (14) Volume indicator

Displays the current volume level.

## Rear panel



#### 1) TRIGGER OUT jack (R-S700 only)

When this unit is turned on or when a certain input source is selected, this unit can send a 12 V/100 mA direct electric current via the TRIGGER OUT jack that can be used to control an external component. The current is sent according to the "Trigger out" setting in the Option menu (see page 40).

#### Note

Do not connect a component that requires more than 100 mA of electric current, otherwise the component may not perform consistently or properly due to insufficient power.

#### 2 REMOTE 2 IN jack (R-S700 only)

Used to receive remote control signals (see page 45).

#### ③ REMOTE 1 IN/OUT jacks

Used to send and receive remote control signals (see page 45).

#### (4) GND terminal

Used to connect a turntable (see page 12).

#### **5** ZONE 2 OUT jacks

Used to connect a Zone 2 component (see page 45).

#### 6 Antenna terminals

Used to connect FM and AM antennas (see page 14).

#### 7 TAPE jacks

Used to connect a tape deck (see page 12).

#### ® DOCK jack

Used to connect an optional Yamaha Universal Dock for iPod (such as the YDS-12), Wireless System for iPod (YID-W10), or Bluetooth Wireless Audio Receiver (YBA-10) (see page 35).

#### 9 PHONO jacks

Used to connect a turntable (see page 12).

#### (10) CD jacks

Used to connect a CD player (see page 12).

#### (1) LINE 1-3 jacks

Used to connect audio components (see page 12).

#### iPod VIDEO output jack (R-S700 only)

Used to send iPhone/iPod video content to a video monitor, such as a TV (see page 35).

#### Note

Video content output is possible only when an iPhone/iPod is connected this unit using a Universal Dock for iPod (such as the YDS-12).

#### (3) SIRIUS jack

Used to connect SiriusConnect tuner (sold separately) (see page 27).

#### (4) COUPLER jacks (R-S700 only)

Used to connect an external unit (see page 15).

#### (5) SUBWOOFER OUT jack

Used to connect a subwoofer with built-in amplifier (see page 12).

#### **16 POWER MANAGEMENT switch**

Used to enable or disable the automatic power down function. When this function is enabled, this unit's Main zone and Zone 2 automatically enters standby mode if this unit is not operated for a certain amount of time (3 settings are available; see page 43).

#### (7) SPEAKERS terminals

Used to connect speakers (see page 12).

#### 18 IMPEDANCE SELECTOR switch

Used to select the impedance setting (see page 13).

#### (9) AC IN (R-S700 only)

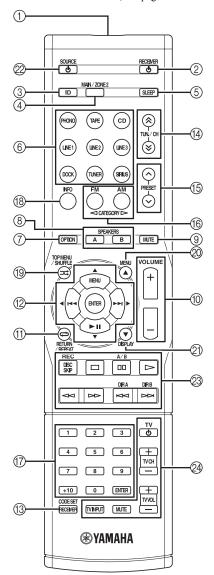
Used to plug in the supplied power cable (see page 15).

#### Remote control

This section describes the function of each button on the remote control used to control this unit or other components made by Yamaha or other manufacturers.

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**ZONE** indicates buttons that can also be used to control Zone 2. For more information about Zone 2, see pages 45 and 46.



#### ■ Common controls

The following buttons can be used no matter which input source is selected.

#### 1 Infrared signal transmitter

Sends infrared signals.

#### 2 RECEIVER () ZONE

Turns this unit on, or sets it to standby mode.

#### ③ **ID**

Changes the remote control ID (see page 44).

#### (4) MAIN/ZONE 2

Switches the zone to be operated by the remote control between the Main Zone and Zone 2 (see page 46).

#### (5) SLEEP

Sets the sleep timer (see page 19).

#### 6 Input selector buttons ZONE

Selects the input source and changes the control area (see page 47).

#### **⑦** OPTION

Turns the OPTION menu on and off (see page 40).

#### **(8) SPEAKERS A/B**

Turns on and off the set of speakers connected to the SPEAKERS A and/or SPEAKERS B terminals on the rear panel of this unit when the corresponding button is pressed.

#### 9 MUTE ZONE

Mutes the sound output. Press again to restore the sound output to the previous volume level.

#### (10) VOLUME +/- (ZONE R-S700 only)

Increases or decreases the sound output level.

#### Note

This does not affect the output level of the REC jacks.

#### (f) RETURN

Returns to the previous menu or ends the menu display when using the Option menu (see page 40).

#### ① △/▽/⊲/▷/ENTER

Selects and confirms items in the Option menu (see page 40).

#### **(3) CODE SET/RECEIVER**

Used to program the remote control so that it can control your other external components (see page 49).

After using the remote control to control one of your components, this button is used to switch the remote control to receiver mode so that remote control commands will be sent to this unit (see page 48).

#### ■ SIRIUS and FM/AM controls

The following buttons can be used when SIRIUS or TUNER is selected as the input source.

#### 14) TUN./CH $\wedge$ / $\vee$ ZONE

Selects the tuning frequency when TUNER is selected as the input source (see page 20).

Searches for a SIRIUS channel when SIRIUS is selected as the input source (see page 29).

#### 15 PRESET ^/ V ZONE

Selects a preset FM/AM station when TUNER is selected as the input source (see page 24).

Select a preset SIRIUS channel when SIRIUS is selected as the input source (see page 31).

#### **(6)** FM/CATEGORY < , AM/CATEGORY > ZONE

Sets the FM/AM tuner band to FM or AM when TUNER is selected as the input source (see page 20).

Selects a channel category when SIRIUS is selected as the input source (see page 29).

#### (7) Numeric buttons, ENTER ZONE

Specifies the frequency or the preset number of the FM/AM station when TUNER is selected as the input source (see page 21).

Specifies the channel number or preset number of the SIRIUS channel when SIRIUS is selected as the input source (see page 30).

#### (18) **INFO**

Changes the SIRIUS Satellite Radio information displayed on the front panel display when SIRIUS is selected as the input source (see page 34).

#### ■ iPod controls

The following buttons can be used when DOCK is selected as the input source for listening to an iPhone/iPod. For more information, see page 35.

- 12 MENU/ ▷□ / I / I / ENTER ZONE
- **18 INFO**
- (19) SHUFFLE □
- 20 △ ZONE
- (21) **▽ ZONE**

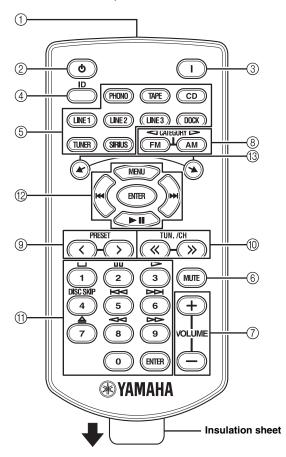
#### **■** External component controls

The following buttons can be used to control external audio/video components when CD, TAPE, PHONO, LINE1, LINE2, or LINE3 is selected as the input source. For more information, see page 47.

- (f) RETURN
- (12) △/▽/⊲/▷/ENTER
- (7) Numeric buttons, ENTER
- 19 TOP MENU
- 20 MENU
- 21 DISPLAY
- 22 SOURCE ()
- 23 External component control buttons
- **24** TV control buttons

# Zone 2 remote control (R-\$700 only)

This section describes the function of each button on the Zone 2 remote control, which is used to control Zone 2.



#### Note

The Zone 2 remote control comes with a battery already installed. Before using the Zone 2 remote control for the very first time, pull out the insulation sheet, as shown.

#### ■ Common controls for Zone 2

The following buttons can be used no matter which input source is selected for Zone 2.

#### 1) Infrared signal transmitter

Sends infrared signals.

#### ② (Zone 2 standby)

Sets Zone 2 to standby mode.

#### ③ | (Zone 2 on)

Turns on Zone 2.

#### (4) **ID**

Changes the Zone 2 remote control ID (see page 44).

#### 5 Zone 2 input selector buttons

Selects the desired input source for Zone 2.

#### 6 MUTE

Mutes the sound output to Zone 2. Press again to restore the sound output to the previous volume level.

#### 7 VOLUME +/-

Increases or decreases the sound output level of Zone 2.

#### ■ SIRIUS and FM/AM controls

The following buttons can be used when SIRIUS or TUNER is selected as the input source for Zone 2.

#### 

Sets the FM/AM tuner band to FM or AM when TUNER is selected as the input source (see page 20). Selects a channel category when SIRIUS is selected as the input source (see page 29).

#### 9 PRESET </>/>

Selects a preset FM/AM station when TUNER is selected as the input source (see page 24).

Selects a preset SIRIUS channel when SIRIUS is selected as the input source (see page 31).

#### ① TUN./CH <<//>/>>

Selects the tuning frequency when TUNER is selected as the input source (see page 20).

Searches for a SIRIUS channel when SIRIUS is selected as the input source (see page 29).

#### (1) Numeric buttons, ENTER

Specifies the frequency or the preset number of the FM/AM station when TUNER is selected as the input source (see page 21).

Specifies the channel number or preset number of the SIRIUS channel when SIRIUS is selected as the input source (see page 30).

#### iPod controls

The following buttons can be used when DOCK is selected as the input source for Zone 2, for listening to an iPhone/iPod. For more information, see page 35.

#### (2) MENU/ ▷□ / I / I / ENTER

#### 13 🛩 / 🛰

#### ■ Yamaha CD player controls

The following buttons can be used to control a Yamaha CD player when CD is selected as the input source for Zone 2.

#### 1) Yamaha CD player control buttons

□ Stops playback
□ Pauses playback
 Starts playback

• DISC SKIP Skips to the next disc in a CD changer

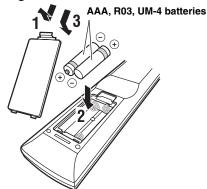
• KA	Skips backward Skips forward
• 🚔	Ejects the disc
• ⊲⊲	Rewinds playback
· >>	Fast-forwards playback

#### Note

Not all Yamaha CD players can be controlled by the Zone 2 remote control.

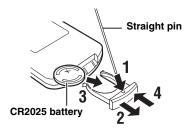
# Using the remote controls

#### ■ Installing batteries



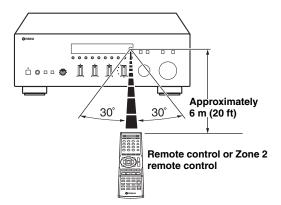
# Replacing the battery in the Zone 2 remote control

Change the battery when the operation range of the Zone 2 remote control decreases.



#### Operation range

The remote controls transmit a directional infrared beam. Be sure to aim the remote controls directly at the remote control sensor on the front panel of this unit or on the infrared signal receiver in Zone 2 during operation.

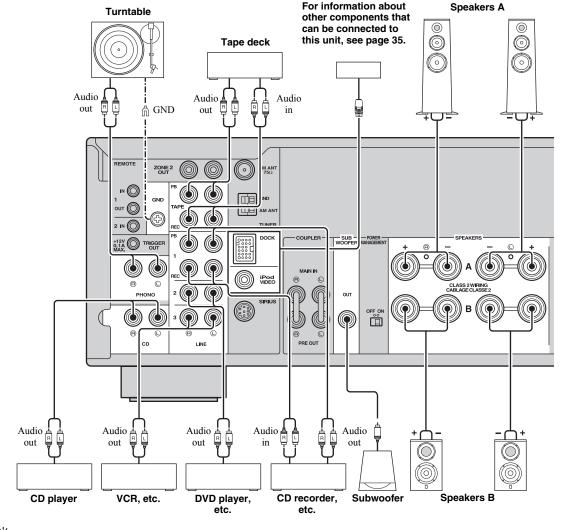


# **CONNECTIONS**

# Connecting speakers and source components

#### **CAUTION**

- Do not connect this unit or other components to the main power until all connections between components are complete.
- All connections must be correct: L (left) to L, R (right) to R, "+" to "+" and "-" to "-". If the connections are faulty, no sound will be heard from the speakers, and if the polarity of the speaker connections is incorrect, the sound will be unnatural and lack bass. Refer to the owner's manual for each of your components.
- Use RCA cables for audio components (except for speaker connections and DOCK jack connections).
- The IMPEDANCE SELECTOR must be set to the appropriate position before connecting speakers. See page 13 for details.
- Do not let bare speaker wires touch each other or any metal part of this unit. This could damage this unit and/or the speakers.



#### **-** (i)

- The PHONO jacks are designed for connecting a turntable with an MM cartridge.
- Connect your turntable to the GND terminal to reduce noise in the signal. However, for some turntables, you may hear less noise without the GND connection.

#### ■ IMPEDANCE SELECTOR switch

#### **CAUTION**

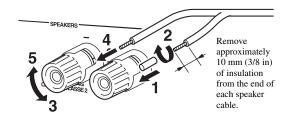
Do not change the IMPEDANCE SELECTOR switch while the power of this unit is turned on, as doing so may damage the unit.

If the unit fails to turn on, the IMPEDANCE SELECTOR switch may not be fully slid to either position. If this is the case, remove the power cable and slide the switch all the way to either position.

Select the switch position (LOW or HIGH) according to the impedance of the speakers in your system.

Switch position	Impedance level
HIGH	<ul> <li>If you use one set (A or B), the impedance of each speaker must be 6 Ω or higher (R-S700) or 8 Ω or higher (R-S500).</li> <li>If you make bi-wire connections, the impedance of each speaker must be 6 Ω or higher (R-S700) or 8 Ω or higher (R-S500). See page 13 for Bi-wire connection.</li> </ul>
LOW	<ul> <li>If you use one set (A or B), the impedance of each speaker must be 4 Ω or higher.</li> <li>If you use two sets (A and B) simultaneously, the impedance of each speaker must be 8 Ω or higher.</li> <li>If you make bi-wire connections, the impedance of each speaker must be 4 Ω or higher. See page 13 for Bi-wire connection.</li> </ul>

#### Connecting speaker cables

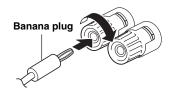


#### Note

When inserting speaker cables into the speaker terminals, insert only the bare speaker wire. If insulated cable is inserted, the connection may be poor and sound may not be heard.

#### Connecting via banana plug

Tighten the knob and then insert the banana plug into the end of the corresponding terminal.



#### ■ Bi-wire connection

Bi-wire connection separates the woofer from the combined midrange and tweeter section. A bi-wire compatible speaker has four binding post terminals. These two sets of terminals allow the speaker to be split into two independent sections. With these connections, the mid and high frequency drivers are connected to one set of terminals and the low frequency driver to another set of terminals.

# This unit EAKERS A Speaker Speaker B B

Connect the other speaker to the other set of terminals in the same way.

#### **CAUTION**

When making bi-wire connections, set the IMPEDANCE SELECTOR switch to HIGH or LOW depending on the impedance of your speakers:

6  $\Omega$  or higher: HIGH (R-S700) 8  $\Omega$  or higher: HIGH (R-S500)

4  $\Omega$  or higher: LOW

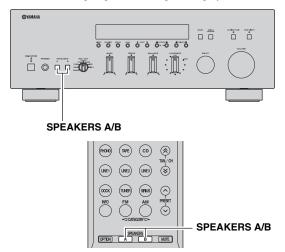
See page 13 for more information about the IMPEDANCE SELECTOR switch.

#### Note

When making bi-wire connections, remove the shorting bridges or cables on the speaker.

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To use the bi-wire connections, press SPEAKERS A and SPEAKERS B on the front panel or on the remote control so that both SP A and B light up on the front panel display.

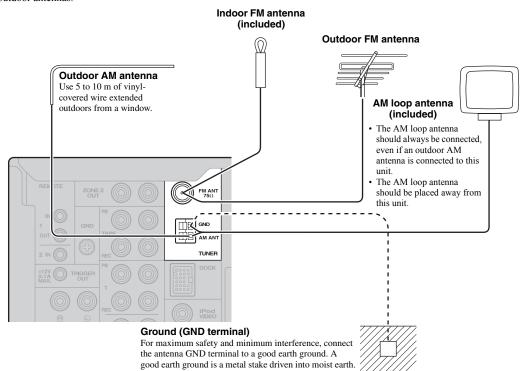


# Connecting the FM and AM antennas

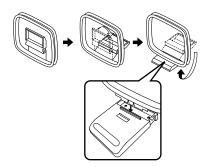
Indoor antennas for receiving FM and AM broadcasts are included with this unit. In general, these antennas should provide sufficient signal strength. Connect each antenna correctly to the designated terminals.

#### Note

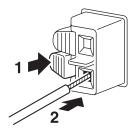
If you experience poor reception quality, install an outdoor antenna. Consult the nearest authorized Yamaha dealer or service center about outdoor antennas.



# Assembling the supplied AM loop antenna



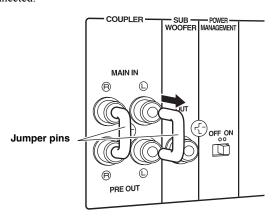
# Connecting the wire of the AM loop antenna



# Using COUPLER jacks (R-S700 only)

Removing the jumper pins from the PRE OUT/MAIN IN jacks enables this unit to operate separately as a control amplifier or a power amplifier. These jacks are used to connect a signal-processing system such as a graphic equalizer or a surround-sound processor to this unit. If an external unit is connected to these jacks, the VOLUME control of this unit can be used to adjust the overall sound output level.

To connect an external unit, first remove the jumper pins from the PRE OUT/MAIN IN jacks and then connect the input jacks of that external unit to the PRE OUT jacks or its output jacks to the MAIN IN jacks. For details, refer to the owner's manual included with the external unit to be connected.



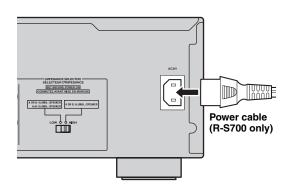
#### Notes

- If you do not use the COUPLER jacks, never remove the jumper pins from these jacks. If removed, no sound will be output from this unit.
- Before installing or removing the jumper pins, be sure to disconnect the power cable of the unit. Leaving the power cable connected could cause noise to be emitted from the speakers or damage the unit.
- When you use this unit as a power amplifier, connect the output
  jacks of the external control amplifier, etc. to the MAIN IN
  jacks of this unit. In this case, the controls of this unit will not
  function except the PHONES jack and the SPEAKERS A/B
  buttons. Use the controls on the external control amplifier to
  make volume adjustments, etc.

# Connecting power cable

Plug the power cable into the AC IN on the rear panel of this unit (R-S700 only).

Plug the power cable into the AC wall outlet after all other connections are complete.



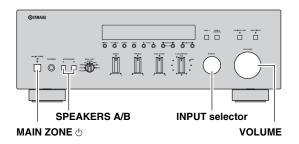
# **PLAYING AND RECORDING**

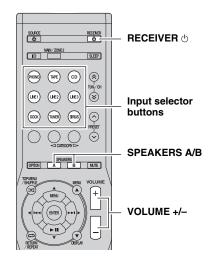
#### **CAUTION**

Extreme caution should be exercised when you play back CDs encoded in DTS.

If you play back a CD encoded in DTS on a CD player that does not support DTS, only noise will be heard, and this noise may damage your speakers. Check whether your CD player supports CDs encoded in DTS. Also, check the sound output level of your CD player before you play back a CD encoded in DTS.

## Playing a source





- 1 Press MAIN ZONE (b) on the front panel (or RECEIVER (b) on the remote control) to turn on this unit.
- 2 Rotate the INPUT selector on the front panel (or press one of the input selector buttons on the remote control) to select the input source you want to listen to.

3 Press SPEAKERS A and/or SPEAKERS B on the front panel or on the remote control to select speakers A and/or speakers B.

When speaker set A or speaker set B are turned on, SP A or SP B is displayed on the front panel display accordingly (see page 6).

#### Notes

- When one set of speakers is connected using bi-wire connections, or when using two sets of speakers simultaneously (A and B), make sure SP A and SP B are displayed on the front panel display.
- · When listening with headphones, turn off the speakers.
- 4 Play the source.
- 5 Rotate the VOLUME control on the front panel (or press VOLUME +/- on the remote control) to adjust the sound output level.

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You can adjust the tonal quality by using the BASS, TREBLE, BALANCE and LOUDNESS controls, the CD DIRECT AMP switch (R-S700 only), or the PURE DIRECT switch on the front panel (see page 17).

6 Press MAIN ZONE ⊕ on the front panel again (or RECEIVER ⊕ on the remote control) to finish using this unit and set it to standby mode.

# Adjusting the tonal quality

# ■ Using the CD DIRECT AMP switch (R-S700 only)

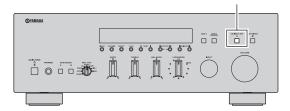
#### **CD Direct Amp feature**

Generates a normal phase and reverse phase signal for both the left and right channels from the input signal and uses the four electronic volumes to send a balanced signal to the amplifying circuit. This feature provides clearer sound as a result of:

- improved signal-to-noise ratio
- external noise canceling
- reduced distortion

Routes input signals from your CD player directly to the specially built-in amplifier for the CD player. As a result, the input signals bypass the INPUT selector and the BASS, TREBLE, BALANCE and LOUDNESS controls and then sent to the power amplifier, thus eliminating any alterations to the CD signals and creating the purest possible sound. The CD DIRECT AMP indicator lights up and the front panel display turns off after a few seconds.

#### **CD DIRECT AMP switch**



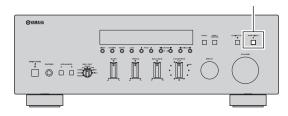
#### Notes

- If both the CD DIRECT AMP and the PURE DIRECT switches are turned on, only the CD DIRECT AMP switch will function.
- Zone 2 cannot be used while the CD DIRECT AMP feature is turned on.
- The INPUT selector and the BASS, TREBLE, BALANCE, and LOUDNESS controls do not function while the CD DIRECT AMP feature is turned on.
- A CD player must be connected to the CD jacks in order to use the CD DIRECT AMP feature.
- This setting is retained even if you turn off this unit.

#### ■ Using the PURE DIRECT switch

Routes input signals from your audio sources so that the input signals bypass the BASS, TREBLE, BALANCE and LOUDNESS controls, thus eliminating any alterations to the audio signals and creating the purest possible sound. The PURE DIRECT indicator lights up and the front panel display turns off after a few seconds.

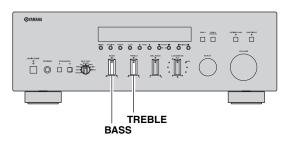
#### **PURE DIRECT switch**



#### Notes

- Zone 2 cannot be used while the PURE DIRECT feature is turned on.
- The BASS, TREBLE, BALANCE, and LOUDNESS controls do not function while the PURE DIRECT feature is turned on.
- This setting is retained even if you turn off this unit.

# Adjusting the BASS and TREBLE controls



The BASS and TREBLE controls adjust high and low frequency response.

The center position produces a flat response.

#### **BASS**

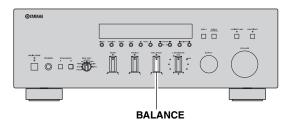
When you feel there is not enough bass (low frequency sound), rotate clockwise to boost. When you feel there is too much bass, rotate counterclockwise to suppress. Control range: -10 dB to +10 dB (20 Hz)

#### **TREBLE**

When you feel there is not enough treble (high frequency sound), rotate clockwise to boost. When you feel there is too much treble, rotate counterclockwise to suppress. Control range: -10 dB to +10 dB (20 kHz)



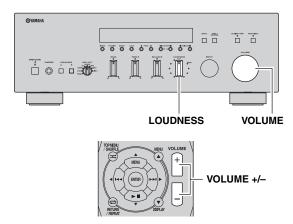
#### Adjusting the BALANCE control



The BALANCE control adjusts the sound output balance of the left and right speakers to compensate for sound imbalance caused by speaker locations or listening room conditions.



#### ■ Adjusting the LOUDNESS control



Retain a full tonal range at any volume level, thus compensating for the human ears' loss of sensitivity to high and low-frequency ranges at low volume.

#### **CAUTION**

If the CD DIRECT AMP switch (R-S700 only) or the PURE DIRECT switch is turned on with the LOUDNESS control set at a certain level, the input signals bypass the LOUDNESS control, resulting in a sudden increase in the sound output level. To prevent your ears or the speakers from being damaged, be sure to press the CD DIRECT AMP switch (R-S700 only) or the PURE DIRECT switch after lowering the sound output level or after checking that the LOUDNESS control is properly set.

1 Set the LOUDNESS control to the FLAT position.



- 2 Rotate the VOLUME control on the front panel (or press VOLUME +/- on the remote control) to set the sound output level to the loudest listening level that you would listen to.
- 3 Rotate the LOUDNESS control until the desired volume is obtained.



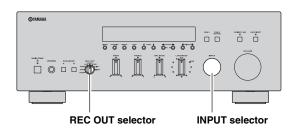


After setting the LOUDNESS control, enjoy listening to music at your preferred volume level. If the effect of the LOUDNESS control setting is too strong or weak, readjust the LOUDNESS control.

## Recording a source

#### Notes

- Audio signals are not output to the TAPE REC or LINE 1 REC output jacks when TAPE or LINE 1 is selected with the REC OUT selector.
  - Audio signals are output to both the TAPE REC and the LINE 1 REC output jacks if when PHONO, DOCK, TUNER, CD, SOURCE or LINE 2 is selected with the REC OUT selector.
- This unit must be turned on in order to record.
- The VOLUME, BASS, TREBLE, BALANCE and LOUDNESS controls and the CD DIRECT AMP switch (R-S700 only) and the PURE DIRECT switch have no effect on the source being recorded.
- Check the copyright laws in your country before recording from records, CDs, radio, etc. Recording copyright-protected material may infringe on copyright laws.



1 Rotate the REC OUT selector on the front panel to select the source you want to record.

When SOURCE is selected, the current input source is output.

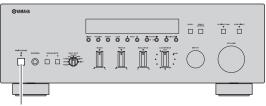
#### Note

SIRIUS Satellite Radio broadcasts cannot be recorded.

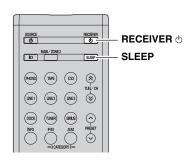
Play the source and begin recording using the recording device connected to the REC jacks (TAPE and/or LINE 1) on the rear panel. See page 12.

# Using the sleep timer

Use this feature to automatically set this unit to standby mode after a certain amount of time. The sleep timer is useful when you are going to sleep while this unit is playing or recording a source.



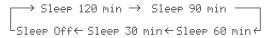
MAIN ZONE ()



#### Notes

- The sleep timer can only be set with the remote control.
- The sleep timer automatically turns off Zone 2. However, Zone 2 components are not turned off.
- 1 Press SLEEP repeatedly to set the amount of time before this unit is set to standby mode.

Each time you press SLEEP, the front panel display changes as shown below.



The SLEEP indicator blinks while setting the amount of time for the sleep timer.



If the sleep timer is set, the SLEEP indicator on the front panel display lights up.

#### `\\\

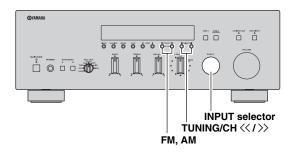
- To disable the sleep timer, select "Sleep Off".
- The sleep timer setting can also be canceled by pressing RECEIVER (b) on the remote control (or MAIN ZONE (b) on the front panel) to set this unit to standby mode.

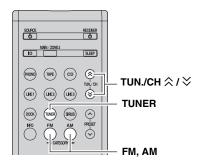
# **FM/AM TUNING**

There are 2 tuning methods; automatic and manual. Select either method according to your preference and the strength of station signals.

## **Automatic tuning**

Automatic tuning is effective when station signals are strong and there is no interference.





- 1 Rotate the INPUT selector on the front panel (or press TUNER on the remote control) to select TUNER as the input source.
- 2 Press FM or AM on the front panel (or FM or AM on the remote control) to select the reception band (FM or AM).

FM or AM is displayed on the front panel display.

3 Press and hold TUNING/CH <</>
/>> on the front panel (or TUN./CH <>/> 
control) for more than 1 second to begin automatic tuning.

Press >> (or  $\Leftrightarrow$ ) to tune in to a higher frequency. Press << (or >>) to tune in to a lower frequency.

#### Notes

- When you tune in to a station, the frequency of the station is displayed on the front panel display.
- If the tuning search does not stop at the desired station because the station signals are weak, try using the manual tuning method.

#### Auto Mute feature

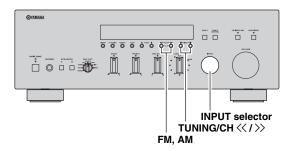
When listening to an FM radio station, the output will automatically be muted when the radio signal is weak if the station was tuned in to by:

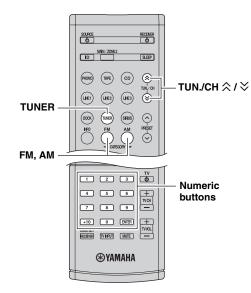
- using the automatic tuning feature
- recalling a preset that was registered using the automatic preset registration feature

If you want to listen to a station that has a weak signal, tune in to the station manually.

# Manual tuning

Manual tuning is effective when station signals are weak.





- 1 Rotate the INPUT selector on the front panel (or press TUNER on the remote control) to select TUNER as the input source.
- Press FM or AM on the front panel (or FM or AM on the remote control) to select the reception band (FM or AM).

FM or AM is displayed on the front panel display.

3 Press TUNING/CH <</p>
(/>> on the front panel (or TUN./CH <>/> / <> on the remote control) to manually tune in to the desired station.

#### Note

When you tune in to a station, the frequency of the received station is shown in the front panel display.

4 To tune in by direct frequency tuning, press the numeric buttons on the remote control to enter the frequency of the station.

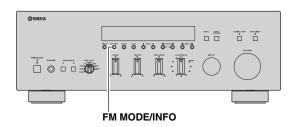
Enter only integers. For example, if you want to set the frequency to 88.9 MHz, enter "889".

#### Notes

- When you press the numeric buttons on the remote control during preset tuning, a preset number is selected. Set the tuning mode to frequency tuning mode using TUNING/CH ⟨</b>
  ✓> on the front panel (or TUN/CH ♠ / ❤ on the remote control) before pressing the numeric buttons.
- "WRONG STATION!" is displayed on the front panel display if you enter a frequency that is out of receivable range. Make sure that the entered frequency is correct.

#### ■ Improving FM reception

If the signal from the station is weak and the sound quality is not good, set the FM band reception mode to monaural mode to improve reception.



- 1 Press FM MODE/INFO on the front panel repeatedly to select "STEREO" (automatic stereo mode) or "MONO" (monaural mode) when this unit is tuned in to an FM radio station.
  - When MONO is selected, FM broadcasts will be heard in monaural sound.
  - When STEREO is selected and an FM station with a stereo broadcast is tuned in, the broadcast will be heard in stereo.

#### Note

The STEREO indicator on the front panel lights up while listening to a station in stereo.

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The FM band reception mode (monaural or stereo) can also be changed by selecting FM Mode in the Option menu (see page 40).

# Automatic station preset (FM stations only)

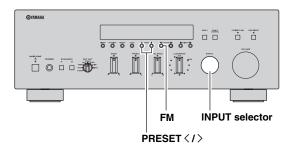
You can use the automatic station preset function to automatically register FM stations as presets. This function enables this unit to automatically tune in to FM stations that have a strong signal and store up to 40 of those stations in order. You can then easily recall any preset station by selecting its preset number.

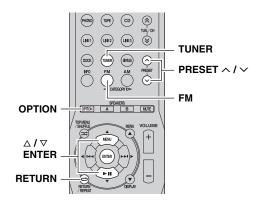
#### Notes

- If a station is registered to a preset number that already has a station registered to it, the previously registered station is overwritten.
- If the station you want to store is weak in signal strength, try using the manual preset tuning method.

#### \\\\

FM stations registered as presets using the automatic preset registration feature will be heard in stereo.





- 1 Rotate the INPUT selector on the front panel (or press TUNER on the remote control) to select TUNER as the input sourse.
- Press FM on the front panel (or FM on the remote control) to select FM as the reception band.

FM is displayed on the front panel display.

#### 3 Press OPTION on the remote control.

The Option menu for TUNER is displayed (see page 40).

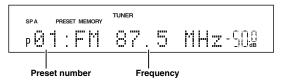
4 Press  $\triangle$  /  $\nabla$  on the remote control to select "Auto Preset", and then press ENTER.



This unit starts scanning the FM band about 5 seconds later from the lowest frequency upwards.

#### `\<u>\</u>'

- Before scanning begins, you can specify the first preset number to be used by pressing PRESET 
   /> on the front panel (or PRESET ^/♥ or △/♥ on the remote control).
- To cancel scanning, press FM or AM on the front panel (or FM or AM or RETURN on the remote control).

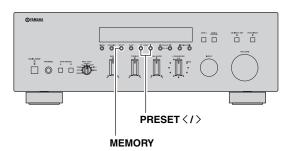


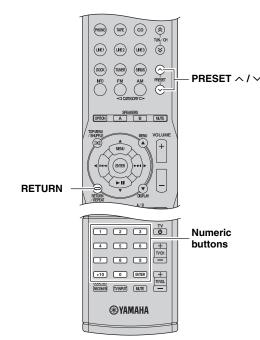
When presets are registered, information is displayed on the front panel display as shown in the illustration above.

When scanning is complete, "FINISH" is displayed and then the display returns to the Option menu. To return the display to the original state, press OPTION or RETURN on the remote control.

# Manual station preset

You can manually register up to 40 FM/AM stations (40 total). You can then easily recall any preset station by selecting its preset number.



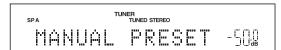


#### 1 Tune in to the desired FM/AM station.

See pages 20 and 21 for tuning instructions.

#### 2 Press MEMORY on the front panel.

"MANUAL PRESET" is displayed briefly on the front panel display, and then the preset number to which the station will be registered is displayed.

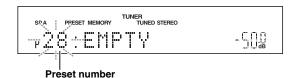


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By holding down MEMORY on the front panel for more than 2 seconds, you can skip the following steps and automatically register the selected station to an empty preset number (i.e., the preset number following the last preset number used).

#### 3 Press PRESET </> on the front panel (or PRESET / on the remote control) to select the preset number to which the station will be registered.

When you select a preset number to which no station is registered, "EMPTY" is displayed. When you select a preset number to which a station has already been registered, the frequency of the station is displayed.



:\\\\c

You can also select a preset number using the numeric buttons on the remote control.

#### 4 Press MEMORY on the front panel.

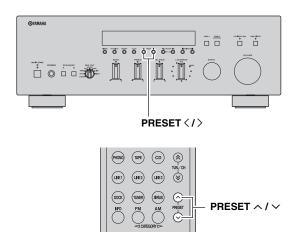
When registration is complete, the display returns to the original state.

`\o':

To cancel registration, RETURN on the remote control or do not perform any operations for about 30 seconds.

# Recalling a preset station

You can recall preset stations that were registered using automatic station preset or manual station preset.



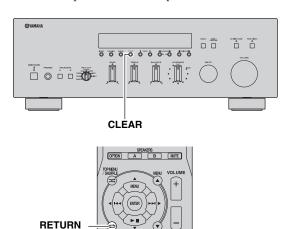
# Press PRESET /> on the front panel (or PRESET / v on the remote control) to select a preset number.

`\\\\

- Preset numbers to which no stations are registered are skipped.
- "NO PRESETS" is displayed if no stations are registered.
- You can directly select a preset number by pressing the numeric buttons on the remote control while recalling a preset station.
   "EMPTY" is displayed on the display if you enter a preset number to which no station is registered. "WRONG NUM." is displayed if you enter an invalid number.
- When you press the numeric buttons on the remote control during normal tuning, a frequency is entered. Set the tuning mode to preset tuning mode using PRESET </>
  > on the front panel (or PRESET </>
  ✓ on the remote control) before pressing numeric buttons.

# Clearing a preset station

Follow the steps below to clear a preset station.

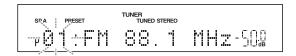


1 Select the desired preset station number.

See "Recalling a preset station" on page 24.

2 Press CLEAR on the front panel.

The selected preset number flashes on the front panel display.



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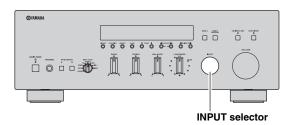
To cancel clearing the preset station, press RETURN on the remote control or leave this unit without any operations for about 30 seconds.

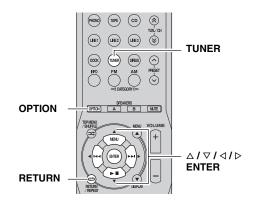
3 Press CLEAR on the front panel to confirm.

"PXX: CLEARED" (XX indicates the preset number) is displayed on the front panel display, and then the display returns to its original state.

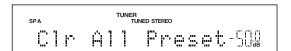
# Clearing all preset stations

Follow the steps below to clear all preset stations.





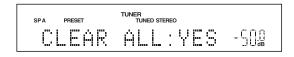
- 1 Rotate the INPUT selector on the front panel (or press TUNER on the remote control) to select TUNER as the input sourse.
- **2** Press OPTION on the remote control. The Option menu for TUNER is displayed (see page 40).
- 3 Press △ / ▽ on the remote control to select "Cir All Preset", and then press ENTER.



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To cancel the operation and return to the Option menu, press RETURN on the remote control.

4 Press <1/p>
→ on the remote control to select "YES", and then press ENTER.



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To cancel without clearing the presets, select "NO".

When all presets have been cleared, "PRESET CLEARED" is displayed, and then the display returns to the Option menu.



5 To exit the Option menu, press OPTION or RETURN on the remote control.

# LISTENING TO SIRIUS Satellite Radio™

#### Listening to Satellite Radio

To listen to Satellite Radio, you'll need to connect a SIRIUS Satellite Radio tuner (sold separately) to your Sirius-Ready receiver. SIRIUS Satellite Radio is available to residents of the US (except Alaska and Hawaii) and Canada.

Satellite Radio delivers a variety of commercial-free music from categories ranging from Pop, Rock, Country, R&B, Dance, Jazz, Classical and many more plus coverage of all the top professional and college sports including play by play games from select leagues and teams. Additional programming includes expert sports talk, uncensored entertainment, comedy, family programming, local traffic and weather and news from your most trusted sources.

Once you've purchased a SIRIUS tuner you'll need to activate it and subscribe to begin enjoying the service. Easy to follow installation and setup instructions are provided with the SIRIUS tuner. There are a variety of programming packages available, including the option of adding "The Best of XM" programming to the SIRIUS service. The "Best of XM" service is not available to SIRIUS Canada subscribers at this time. Please check with SIRIUS Canada for any updates using the numbers and web address below.

Family friendly packages are also available to restrict channels featuring content that may be inappropriate for children.

To subscribe to SIRIUS, U.S. and Canadian customers can call 1-888-539-SIRI (1-888-539-7474) or visit sirius.com (US) or siriuscanada.ca (Canada).

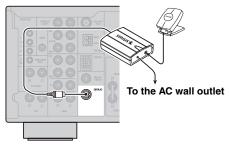
#### SIRIUS Radio Legal

SIRIUS and all related marks and logos are trademarks of Sirius XM Radio Inc. and its subsidiaries. All other marks and logos are the property of their respective owners. All rights reserved. SIRIUS subscription sold separately. Taxes and a one-time activation fee may apply. SIRIUS tuner required (sold separately) to receive the SIRIUS service. All programming and fees subject to change. It is prohibited to copy, decompile, disassemble, reverse engineer, hack, manipulate or otherwise make available any technology or software incorporated in receivers compatible with the SIRIUS Satellite Radio System. Service not available in Alaska or Hawaii.

# Connecting the SiriusConnect™ tuner

Connect the SiriusConnect tuner (sold separately) to the SIRIUS jack on the rear panel of this unit. For details, see the instruction manuals provided with the SiriusConnect tuner.

# SiriusConnect Tuner and the antenna (sold separately)



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- To ensure optimal reception of SIRIUS Satellite Radio signals, the antenna of the SiriusConnect tuner must be placed at or near a window with no obstacles in the path to the sky. You can mount it indoors or outdoors. The orientation of the antenna for the best reception differs depending on the area. Refer to the instruction manuals provided with the SiriusConnect tuner for information about antenna installation.
- Use the "Antenna" information on the front panel display (see page 34) to check the antenna reception level and adjust the orientation of the antenna.
- You need to connect the SiriusConnect tuner to the AC wall outlet.

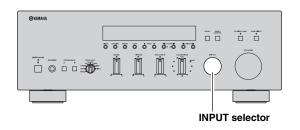
#### Notes

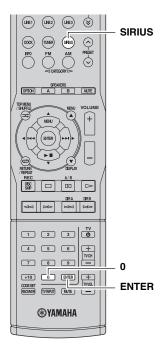
- If "CHECK SR TUNER" or "ANTENNA ERROR" is displayed on the front panel display, the SiriusConnect tuner or antenna is not connected correctly. In such cases, check the connection of the SiriusConnect tuner and the antenna.
- If "NOT SUPPORTED" is displayed on the front panel display, this unit does not support the connected SiriusConnect tuner.

# Activating SIRIUS Satellite Radio™ subscription

Before using the SIRIUS Satellite Radio feature, you need to activate your SIRIUS Satellite Radio subscription. To activate the subscription you need the Sirius ID which is uniquely assigned to the SiriusConnect tuner. A Sirius ID is 12-digit number which is indicated on the package of the SiriusConnect tuner and on the label of the SiriusConnect tuner. The Sirius ID is also displayed on the front panel display when you tune in to the SIRIUS Satellite Radio channel "0".

#### Displaying the Sirius ID of your SiriusConnect tuner





- 1 Rotate the INPUT selector on the front panel (or press SIRIUS on the remote control) to select SIRIUS as the input source.
- 2 Press 0 on the remote control and then ENTER to display the Sirius ID of your SiriusConnect tuner.

"000 Sirius ID" and "xxxxxxxxxxxx" is displayed alternately on the front panel display. ("xxxxxxxxxxx" indicates the 12-digit Sirius ID of your SiriusConnect tuner.)
Write the Sirius ID below.

ID:

3 Contact SIRIUS Satellite Radio to activate your subscription.

#### **SIRIUS Satellite Radio online information**

Contact for activation

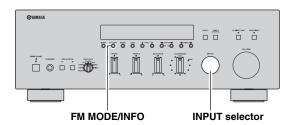
URL: https://activate.siriusradio.com/

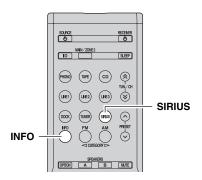
Phone: 1-888-539-SIRIUS (1-888-539-7474)

`\o`:

Status messages are displayed on the front panel display during the activation. For details, see "SIRIUS Satellite Radio<sup>TM</sup>" on page 53. Once the activation is finished, "SUB UPDATED" appears.

# SIRIUS Satellite Radio™ operations





1 Rotate the INPUT selector on the front panel (or press SIRIUS on the remote control) to select SIRIUS as the input source.

The SIRIUS indicator lights up on the front panel display and the SIRIUS Satellite Radio information (such as channel number, channel name, category, artist name, or song title) for the currently selected channel is displayed on the front panel display.



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- When you select SIRIUS as the input source, this unit automatically recalls the previously selected channel.
- You can change the SIRIUS Satellite Radio information that is displayed by pressing FM MODE/INFO on the front panel (or INFO on the remote control) (see page 34).

#### Notes

- If you have not activated your subscription yet, you can only select "184" or "000".
- If a status message or an error message is displayed on the front panel display, see "SIRIUS Satellite Radio<sup>TM</sup>" (see page 53).

# 2 Search for a channel by using one of the SIRIUS Satellite Radio search modes.

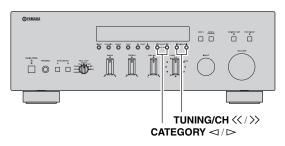
- All channel search mode
   Selects a channel from a list of all channels (see
   page 29).
- Category search mode Selects a channel by category (see page 29).
- Direct number access mode
   Selects a channel directly by channel number (see
   page 30).
- Preset search mode
   Selects a channel from the preset channels (see page 31).

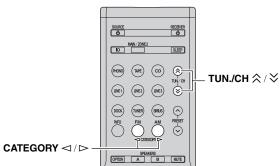
You can register channels as presets and then easily recall any preset channel by selecting its preset number.

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- You can display SIRIUS Satellite Radio information on the front panel display (see page 34).
- If you tune in to a channel that you do not subscribe to, "CALL 888-539-SIRIUS TO SUBSCRIBE" scrolls across the front panel display, and then "CALL SIRIUS" is displayed.
- You can register SIRIUS Satellite Radio channels as presets (see page 30).

#### All channel search mode





1 Press TUNING/CH <</p>
( /> > on the front panel (or TUN./CH <>/p>
/ > on the remote control) repeatedly to search for a channel from a list of all channels.



#### `\<u>\</u>'

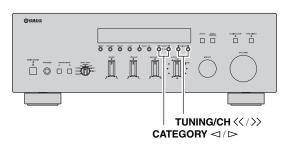
- You can search for a channel quickly by holding down TUNING/CH <</>

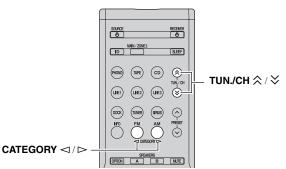
   ∨ >> on the front panel (or TUN./CH 

   ∨ 

   on the remote control).
- You can skip to channels in the previous or next category by pressing CATEGORY 
  ✓/ > on the front panel (or CATEGORY 
  ✓/ > on the remote control).

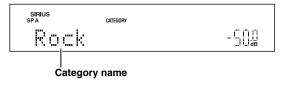
#### ■ Category search mode





# Press CATEGORY / ▷ on the front panel (or CATEGORY / ▷ on the remote control) to select a channel category.

The CATEGORY indicator lights up in the front panel display when selecting a category. When you select a category, the first channel in the category is selected.



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You can search for a channel category quickly by pressing and holding CATEGORY  $\lhd / \rhd$  on the front panel (or CATEGORY  $\lhd / \rhd$  on the front panel).

#### Note

If no operations are performed for 10 seconds, the search mode returns to the all channel search mode.

While the CATEGORY indicator on the front panel display is lit, press TUNING/CH <</p>
on the front panel (or TUN./CH <>/>
/ <>/>
on the remote control) repeatedly to search for a channel within the selected channel category.

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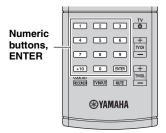
- You can search for a channel quickly by pressing and holding TUNING/CH ⟨⟨/⟩⟩ on the front panel (or TUN./CH ♠/♥ on the remote control).
- In the category search mode, you can only search for a channel within the selected channel category.

#### Note

This unit skips the following channels in all channel search mode or category search mode. This is not a malfunction.

- channels that are locked (see page 32)
- · channels that are not currently in service
- channels that you do not subscribe to

#### ■ Direct number access mode



#### 1 Press the numeric buttons on the remote control to enter the desired three-digit channel number.

For example, to enter the number 123, press the numeric buttons "1," "2" and then "3".

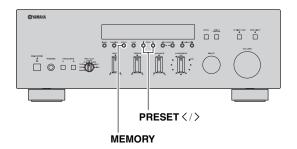
#### \_``@′≤

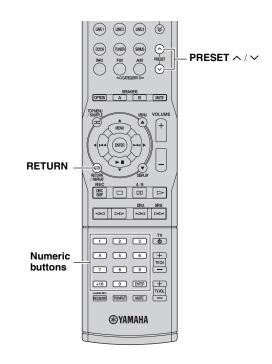
- To entering a one-digit or two-digit channel number, enter the number using the numeric buttons and then press ENTER on the remote control to confirm your entry.
- This unit automatically accepts your entry if you do not press ENTER on the remote control within a few seconds after entering the number.
- If the selected channel is locked, "PIN:\_\_\_" is displayed on the front panel display. Enter the 4-digit Parental Lock code number by using the numeric buttons or press ENTER on the remote control to cancel (see page 32).
- If the selected channel is not available, an advisory message may be displayed. For details, refer to "SIRIUS Satellite Radio<sup>TM</sup>" (see page 53).
- If this unit is in preset search mode, a preset number is selected instead of a channel number when you press the numeric buttons on the remote control. To switch to direct number access mode, press TUNING/CH ⟨⟨/⟩⟩ on the front panel (or TUN./CH ⟨⟨/⟩⟩ on the remote control).

## Registering and recalling SIRIUS Satellite Radio™ channels

Up to 40 SIRIUS Satellite Radio channels can be registered as preset channels.

#### ■ Registering preset channels





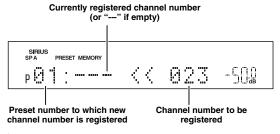
#### 1 Search for a channel to be registered.

For details on searching channels, refer to the following pages.

- All channel search mode (see page 29)
- Category search mode (see page 29)
- Direct number access mode (see page 30)

#### 2 Press MEMORY on the front panel.

The indicator on the front panel display changes as follows.



`**`** 

- By holding down MEMORY on the front panel for more than 2 seconds, you can skip the following steps and automatically register the selected channel to an empty preset number (i.e., the preset number following the last preset number used).
- To cancel registration, press RETURN on the remote control or do not perform any operations for about 30 seconds.

# 3 Press PRESET < / > on the front panel (or PRESET ∧ / ∨ on the remote control) to select preset number.

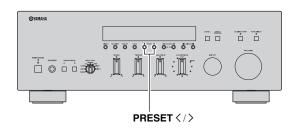
`\\\

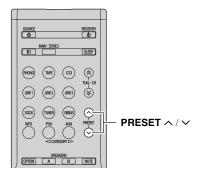
- You can also select a preset number using the numeric buttons on the remote control.
- If you select a preset number that is being used (i.e., if the currently registered channel number is displayed next to the preset number), the current preset will be overwritten.

#### 4 Press MEMORY on the front panel.

# Recalling a preset channel (Preset Search mode)

You can recall preset channels by specifying their preset numbers.



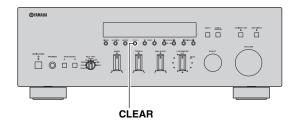


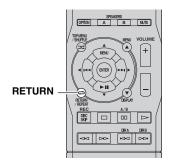


1 Press PRESET < / > on the front panel (or PRESET < / > on the remote control) repeatedly to change the preset number (1 to 40).

#### Clearing a preset channel

Follow the steps below to clear a preset channel one at a time





#### 1 Select the desired preset.

See "Recalling a preset channel (Preset Search mode)" on page 31.

#### 2 Press CLEAR on the front panel.

The selected preset number flashes on the front panel display.



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To cancel clearing the preset channel, press RETURN on the remote control or leave this unit without any operations for about 30 seconds.

#### 3 Press CLEAR on the front panel to confirm.

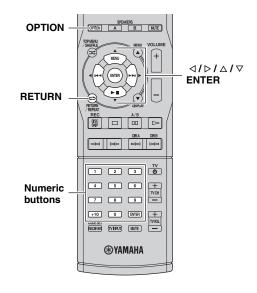
"PXX: CLEARED" (XX indicates the preset number) is displayed on the front panel display, and then the display returns to its original state.

# Setting the Parental Lock

You can use the Parental Lock feature to limit access to certain SIRIUS Satellite channels. This unit automatically skips the locked channels when this unit is in the all channel search mode or category search mode and you search for a channel by pressing TUNING/CH  $<\!\!<\!\!/\!\!>$  on the front panel (or TUN./CH  $<\!\!<\!\!/\!\!>$  on the remote control).

#### Setting the code number and locking/ unlocking channels

Use this feature to set the Parental Lock code number (PIN) and select the channels to be locked or unlocked.



#### Press OPTION on the remote control.

The Option menu for SIRIUS is displayed.

2 Press △ / ▽ on the remote control to select "Parental Lock", and then press ENTER.

# 3 Use < / ▷ (to select a digit to edit) and △ / ▽ (to select a number) on the remote control to enter the 4-digit code number.</p>

- If you are entering a code number for the first time, enter the desired code number.
- If you have entered a code number before, enter the same code number.



The entered code number is needed for tuning in the channel or unlocking the channel. Write it down below. Code number:

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You can also enter the code number using the numeric buttons on the remote control.

#### 4 Press ENTER on the remote control.

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If the code number was entered for the first time, a confirmation message is displayed. Press ENTER again to confirm the code number.

The SIRIUS channel number and channel name are displayed on the front panel display.

#### Notes

- If a code number is already registered and you enter a different number, "WRONG" is displayed and the display returns to step 3. Enter the correct code number.
- If you forget the Parental lock code or want to change it, reset it using "SR PIN" (see page 43).

## 5 Search for a channel to be locked or unlocked.

For details on searching channels, refer to the following pages.

- All channel search mode (see page 29)
- Category search mode (see page 29)

#### Note

When searching for a channel, the sound of the selected channel can be heard even if the channel is locked.

#### 6 Press ENTER on the remote control to lock or unlock the selected channel.

- If the selected channel is locked, the channel number and "LOCKED" are displayed on the front panel display.
- If the selected channel is unlocked, the front panel display changes from "LOCKED" to the channel name.



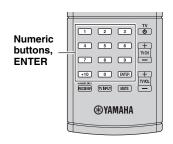
## 7 Repeat steps 5 and 6 to lock or unlock other channels as desired.

#### 8 Press OPTION once or press RETURN repeatedly on the remote control to exit the "Parental Lock".

- If the last channel you selected was locked, the unit tunes in to "184 Weather/Emergency" or "000 SIRIUS ID".
- If the last channel you selected was unlocked, the unit tunes in to that channel.

#### ■ Tuning in to the locked channels

Tune in to the channel using direct number access mode (see page 30) or preset search mode (see page 31). When you tune in to a locked channel "LOCKED" is displayed on the front panel display, followed by the following message. Enter the Parental lock code set previously by using the numeric buttons on the remote control. To cancel this operation, press ENTER on the remote control.





#### Note

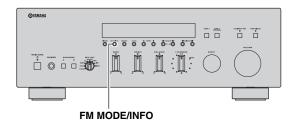
If the number you entered does not match the code number, "WRONG" is displayed on the front panel display and this unit tunes in to the previously selected channel.

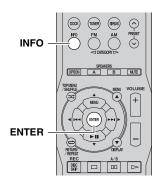
# Displaying the SIRIUS Satellite Radio™ information

Use this feature to display the SIRIUS Satellite Radio information on the front panel display.

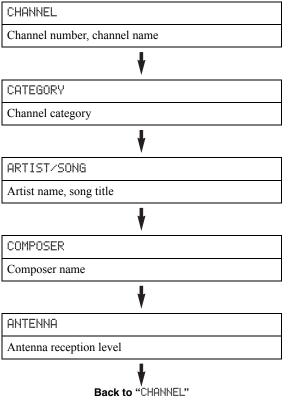
#### Note

If a status message or an error message is displayed on the front panel display, see "SIRIUS Satellite Radio<sup>TM</sup>" on page 53.





1 Press FM MODE/INFO on the front panel (or INFO on the remote control) repeatedly to switch between the following SIRIUS Satellite Radio information display modes.



#### Display example (ANTENNA)

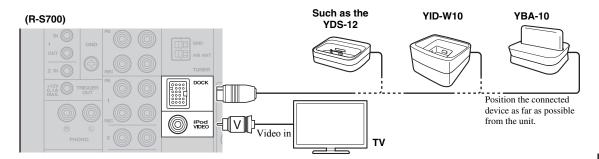


#### `\\<u>\</u>'

- If the SIRIUS Satellite Radio information contains a character that cannot be recognized by this unit, the character will be displayed as a space.
- When the antenna of the SiriusConnect tuner cannot receive the signals, "ACQUIRING" is displayed on the front panel display.
- When an information is unavailable, "---" is displayed.
- To hold or release the displayed information, press ENTER on the remote control. While it is held, the "HOLD" indicator flashes on the front panel display.

## PLAYING BACK TUNES FROM YOUR iPhone/iPod/ Bluetooth™ COMPONENT

Once you have connected an optional Yamaha Universal Dock for iPod (such as the YDS-12), Wireless System for iPod (YID-W10), or Bluetooth Wireless Audio Receiver (YBA-10) to the DOCK jack on the rear panel of this unit, you can enjoy playback of your iPhone/iPod or Bluetooth component using the remote control supplied with this unit.



	Universal Dock for iPod	Wireless System for iPod	Bluetooth Wireless Audio Receiver
Model (As of July 2010)	• YDS-12 • YDS-11 • YDS-10	YID-W10	YBA-10
This unit can play back	Audio and video	Only audio	Only audio
Operated by	Remote control     Zone 2 Remote control     (R-S700 only)     iPhone/iPod connected to the dock	iPhone/iPod connected to the YID-W10 transmitter     Remote control     Zone 2 Remote control (R-S700 only)	Bluetooth components
Supported iPhone/iPod (As of July 2010)	• iPod touch • iPod mini • iPod (4th Gen/ • iPhone 5th Gen/ • iPhone 3G classic) • iPhone 3GS • iPod nano	• iPod touch • iPod (5th Gen/ • iPhone 3G • iPhone 3GS • iPod nano	
Remarks	Only the R-S700 supports video output. The YDS-10 does not support video playback. iPhone/iPod charging also supported. The YDS-10/YDS-11 does not support iPhone connection.	iPhone/iPod charging also supported.	

#### CAUTION

To prevent accidents, unplug the power cable of this unit before connecting a Universal Dock for iPod, a Wireless System for iPod or a Bluetooth Wireless Audio Receiver.

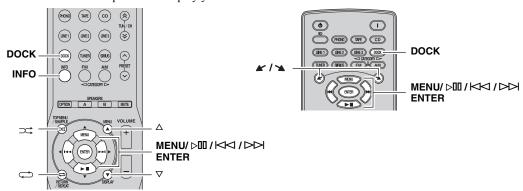
#### Note

If the iPhone connected to the YID-W10 receives a call while this unit is in standby mode, the unit turns on automatically and the ringtone is heard through this unit. If you do not want this unit to turn on when a call is received, set the iPhone to silent mode.

## Using a Universal Dock for iPod

#### ■ Controlling your iPhone/iPod

After setting your iPhone/iPod in your dock, rotate the INPUT selector on the front panel (or press DOCK on the remote control) to select DOCK as the input source to play your iPhone/iPod.



While viewing the information displayed on your iPhone/iPod, use the following remote control buttons to operate (playback, pause, skip, etc.) your iPhone/iPod.

Remote control	Zone 2 remote control (R-S700 only)	Operation
MENU	MENU	Displays the menu.
ENTER	ENTER	If an item is selected: Confirms the item and displays the next screen.     If a song is selected: Plays the selected song.
Δ	*	Scroll up.
▽	**	Scroll down.
>00	⊳□□	<ul><li> If a song is playing: Pauses the song.</li><li> If a song is paused: Plays the song.</li></ul>
DD	DD	<ul><li> If a song is playing or paused: Skips to the beginning of the next song.</li><li> If pressed and held: Searches forward.</li></ul>
KM	KK	If a song is playing or paused: Skips to the beginning of the current song.     Pressing repeatedly skips one song backwards with each press.     If pressed and held: Searches backward.
⊃;*		Switches between shuffle modes (Off $\rightarrow$ Songs $\rightarrow$ Albums $\rightarrow$ Off).
*		Switches between repeat modes (Off $\rightarrow$ One $\rightarrow$ All $\rightarrow$ Off).
INFO*		Switches between items displayed on the front panel display of this unit (Song number and elapsed time $\rightarrow$ Songs $\rightarrow$ Artists $\rightarrow$ Albums $\rightarrow$ Song number and elapsed time).

#### Notes

- "\*" indicates buttons that can be used to control the Main zone only.
- · Some shuffle modes and repeat modes may not be available depending on the model or the software version of your iPhone/iPod.

`\\\

When this unit is turned on or is in standby mode, your iPhone/iPod can be charged automatically if it is connected to a Universal Dock for iPod. The MAIN ZONE indicator remains brightly lit when an iPhone/iPod is being charged.

#### ■ Playing videos from your iPhone/iPod (R-S700 only)

If a video monitor, such as a TV, is connected to this unit's iPod VIDEO jack using a composite video cable, you can use the video monitor to watch videos stored on or streamed from your iPhone/iPod.

#### Note

iPhone/iPod operation screens are not displayed on the video monitor.

## Using a Wireless System for iPod

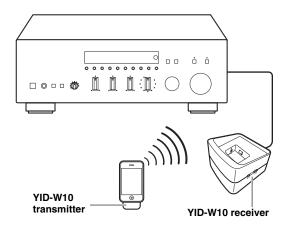
By connecting a Wireless System for iPod to this unit, you can play songs on your iPhone/iPod and listen to them using a wireless connection.

#### `\o':

You can use the remote control to control the iPhone/iPod. For more information, see page 36.

#### Note

When playing an iPhone/iPod using a Wireless System for iPod, playback information is not displayed on the front panel display.



### ■ Establishing a wireless connection

Once the iPhone/iPod is connected to the YID-W10 transmitter and playback begins, it takes about 5 seconds for audio to be heard. During this time the wireless connection between the YID-W10 transmitter and receiver is established.

The status of the wireless connection between the YID-W10 transmitter and receiver is indicated by the respective indicator.

Status of Connection	YID-W10 transmitter indicator	YID-W10 receiver indicator
No connection	Off	Off
Confirming connection	Green, flashing	Blue, flashing
Connected	Green, lit	Blue, lit

#### Controlling this unit with your iPhone/ iPod

- When playback begins on an iPhone/iPod that is connected to a YID-W10 transmitter, and if the YID-W10 transmitter is within range of the YID-W10 receiver, this unit performs as follows:
  - If this unit is already turned on when playback begins: The input source switches to DOCK.
  - If this unit is in standby mode when playback begins: This unit turns on and the input source switches to DOCK.
- In the following situations, the wireless connection between the transmitter and receiver is disconnected. After 30 seconds this unit automatically enters standby mode.
  - The iPhone/iPod is not operated for about 30–120 seconds after the playback is paused.
  - The sleep timer of the iPhone/iPod is activated.
  - The iPhone/iPod is disconnected from the YID-W10 transmitter.
  - The iPhone/iPod battery level decreases to a level where it cannot provide enough power to the YID-W10 transmitter.
  - The YID-W10 transmitter is moved outside of the wireless communication range of the YID-W10 receiver.
  - Communication between the YID-W10 transmitter and receiver becomes disrupted due to interference from other wireless LAN devices, cordless telephones, microwave ovens, etc.



These features can be disabled by setting "Interlock" to "OFF" in the Option menu (see page 42).

Adjusting the volume on the iPhone/iPod also adjusts
the volume of this unit. The iPhone/iPod can increase
the volume to up to 0 dB (or the value set for the
"MaxVol" setting in the Option menu). To further
increase the volume, adjust the volume using this unit's
VOLUME control or the remote control.

#### ``@´:

- When this unit is turned on or is in standby mode, your iPhone/iPod can be charged automatically if the YID-W10 transmitter connected to your iPhone/iPod is stationed in the YID-W10 receiver. The MAIN ZONE indicator remains brightly lit when an iPhone/iPod is being charged.
- Refer to the operating instructions of the YID-W10 for more information.

#### Note

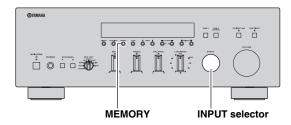
When the iPhone/iPod is used in Zone 2, these features are not available.

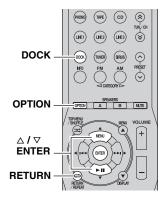
### Using a Bluetooth Wireless Audio Receiver

#### Note

This unit supports A2DP (Advanced Audio Distribution Profile) and AVRCP (Audio and Video Remote Control Profile) of the Bluetooth profile.

#### ■ Pairing Bluetooth<sup>™</sup> components





Be sure to pair the Bluetooth Wireless Audio Receiver and the Bluetooth component when connecting for the first time or when settings have been deleted.

Refer to the operating instructions of your Bluetooth component as necessary when carrying out pairing.

#### Note

The Bluetooth Wireless Audio Receiver can be paired with up to eight Bluetooth components. When the ninth device is paired, the pairing settings for the device which has not been used for the longest period of time will be deleted.

- 1 Rotate the INPUT selector on the front panel (or press DOCK on the remote control) to select DOCK as the input source.
- 2 Turn on the Bluetooth component you want to pair and set it to pairing mode.
- **3** Press OPTION on the remote control.

  The Option menu for DOCK displayed (see page 40).

4 Press △ / ▽ on the remote control to select "Pairing", and then press ENTER.

"Searching..." is displayed and pairing begins.



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To cancel pairing, press RETURN on the remote control.

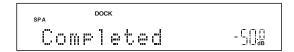
Make sure the Bluetooth component recognizes the Bluetooth Wireless Audio Receiver.

When the component is recognized, it will be displayed in the Bluetooth component list, for example as "YBA-10 YAMAHA".

6 Select the Bluetooth Wireless Audio Receiver from the Bluetooth component list, and enter a pass key "0000" using the Bluetooth component.

When pairing is complete, "Completed" is displayed on the front panel display.

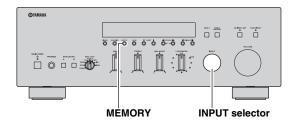
To exit the Option menu, press OPTION on the remote control.

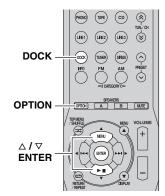


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When the input source is set to DOCK, you can also begin pairing by pressing and holding MEMORY on the front panel (or ENTER on the remote control).

#### ■ Playing back Bluetooth<sup>TM</sup> components





When pairing is complete, carry out the following procedure to achieve a wireless connection between this unit and the Bluetooth component.

When the wireless connection is complete, you can enjoy playback from Bluetooth components.

#### Note

Depending on the Bluetooth component, a wireless connection is established automatically or when the Bluetooth component is operated. In these cases, it is not necessary to carry out the following procedure.

1 Rotate the INPUT selector on the front panel (or press DOCK on the remote control) to select DOCK as the input source.

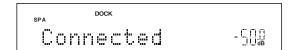
#### 2 Press OPTION on the remote control.

The Option menu for DOCK displayed (see page 40).

## 3 Press $\triangle$ / $\nabla$ on the remote control to select "Connect", and then press ENTER.

When wireless connection is complete, "Connected" is displayed on the front panel display.

To exit the Option menu, press OPTION on the remote control.



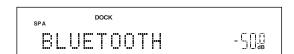
#### Note

"Not found" is displayed if there is a connection error. Check that the following conditions have been satisfied, and try to establish a wireless connection again.

- Both this unit and the Bluetooth component are paired.
- The Bluetooth component is switched on.
- The Bluetooth component is within 32 feet/10 meters of the Bluetooth wireless audio receiver.

## 4 Operate the Bluetooth component for playback.

While the Bluetooth component is playing, "BLUETOOTH" is displayed on the front panel display.



#### Note

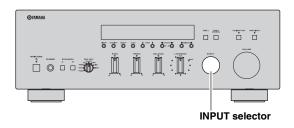
To disconnect a wireless connection, repeat these steps and select "Disconnect" in step 3.

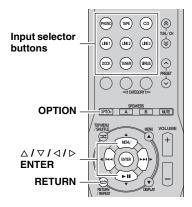
<u>`</u>@:

When the input source is set to DOCK, you can also establish a wireless connection by pressing MEMORY on the front panel (or ENTER on the remote control).

## SETTING THE OPTION MENU FOR EACH INPUT SOURCE

The Option menu allows you to configure various settings for each input source and recall those settings automatically when an input source is selected. Also, you can view the signal information for certain input sources. The procedure for setting the Option menu items is described below.





- 1 Rotate the INPUT selector on the front panel (or press one of the input selector buttons on the remote control) to select the desired input source.
- 2 Press OPTION on the remote control.

#### Note

If the input source is changed while the Option menu is displayed, the front panel display exits the Option menu and the display for the selected input source is displayed.

- 3 Press △ / ▽ on the remote control to select the desired menu item, and then press ENTER.
- 4 Press △ / ▽ / ⊲ / ▷ on the remote control to change the settings.

`@´

For certain menu items, you must press ENTER to save the new setting.

## 5 To exit the Option menu, press OPTION on the remote control.

To return to the previous menu, press RETURN on the remote control.

#### Note

If  $\triangle / \nabla / \triangleleft / \triangleright$  on the remote control or other buttons do not work after closing the Option menu, rotate the INPUT selector on the front panel (or press one of the input selector buttons on the remote control) to select the current input source again.

## Option menu items

The following menu items are provided for each input source.

Input source	Menu items
PHONO, CD, TAPE 1, LINE 1-3	Volume, Zone2 Volume*1, Trigger Out*1
TUNER	Volume, Zone2 Volume*1, Trigger Out*1, FM Mode, Auto Preset, Clr All Preset
SIRIUS	Volume, Zone2 Volume*1, Trigger Out*1, Parental Lock
DOCK (iPhone/iPod)	Volume, Zone2 Volume*1, Trigger Out*1, Interlock*2
DOCK (Bluetooth)	Volume, Zone2 Volume*1, Trigger Out*1, Connect, Disconnect, Pairing

#### Notes

- \*1 "Zone2 Volume" and "Trigger Out" are available on the R-S700 only
- \*2 "Interlock" is displayed in the Option menu only when using a Wireless System for iPod.

Details of the menu items are as follows. The configuration will be reflected to the input source currently selected.

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The default settings are marked with "\*".

#### Volume

Submenus: MaxVol, IniVol

Adjustable range

(MaxVol): -30.0 dB to +15.0 dB, +16.5 dB\* (5.0 dB step)

Adjustable range

(IniVol): Off\*, Mute, -89.5dB to +16.5dB (0.5 dB step)

Sets items for volumes.

#### MaxVol (Maximum volume)

Sets the maximum volume level so that the volume will not be accidentally increased above a certain level. For example, you can adjust the volume between –89.5 dB and –5.0 dB (or Mute) when you set this parameter to "–5.0dB". The volume can be increased to the maximum level when this parameter is set to +16.5 dB (default).

#### IniVol (Initial volume)

Sets the volume at the time this unit is turned on. When this parameter is set to "Off", the volume level used when this unit was set to standby is applied.

#### Note

If "MaxVol" is set to a value lower than the "IniVol" setting, the setting for "MaxVol" overrides the "IniVol" setting. For example, if you set "MaxVol" to "-30.0dB" and "IniVol" to "0.0dB", the volume is automatically set to "-30.0dB" the next time this unit is turned on.

#### Zone2 Volume (R-S700 only)

Submenus: MaxVol, IniVol

Adjustable range

(MaxVol): -30.0 dB to +15.0 dB, +16.5 dB\* (5.0 dB step)

Adjustable range

(IniVol): Off\*, Mute, -89.5dB to +16.5dB (0.5 dB step)

Sets the maximum volume level and initial volume level of Zone 2.

#### MaxVol (Maximum volume)

Sets the maximum volume level for Zone 2. Refer to "MaxVol (Maximum volume)" above.

#### IniVol (Initial volume)

Sets the volume at the time Zone 2 is turned on. Refer to "IniVol (Initial volume)" above.

\\\\

The "ZONE 2" indicator on the front panel display flashes when the Zone2 volume is adjusted.

#### Note

If "MaxVol" is set to a value lower than the "IniVol" setting, the setting for "MaxVol" overrides the "IniVol" setting. For example, if you set "MaxVol" to "-30.0dB" and "IniVol" to "0.0dB", the volume is automatically set to "-30.0dB" the next time this unit is turned on.

#### Trigger Out (R-S700 only)

Submenu: Mode

Choices: Power\*, Source, Manual

Use this feature to select the functions of the TRIGGER OUT jack of this unit.

#### Power

Select this setting to send the voltage signals while the selected zone is turned on.

#### Source

Select this setting to send the voltage signals while the input source is selected.

#### Manual

Select this setting to send the voltage signals manually.

#### Note

The settings that are available depend on the mode (Power,

Source, or Manual) that is selected.

Power: Zone

Source: Zone and Output level for each input source

Manual: Manual test

#### Zone

Choices: All\*, Main, Zone 2

Select the zone to apply the setting you selected in "Mode".

All

The "Mode" setting is applied to the Main zone and Zone 2.

#### Main

The "Mode" setting is applied to the Main zone only.

#### Zone 2

The "Mode" setting is applied to Zone 2 only.

#### SETTING THE OPTION MENU FOR EACH INPUT SOURCE

#### Output level for each input source

Choices: High\*, Low

Select the function of the TRIGGER OUT jack when the corresponding input source is selected.

#### High

Send the voltage signals when you select the input source you set in "Source".

#### Low

Stop sending the voltage signals when you select the input source you set in "Source".

#### Manual test (Manual)

Choices: High\*, Low

Confirm that the component connected to the TRIGGER OUT jack operates when voltage signals are sent to the component. This setting is available only when "Mode" is set to "Manual".

#### High

Send the voltage signals.

#### Low

Stop sending the voltage signals.

#### **FM Mode**

Choices: STEREO\*, MONO

Sets the FM broadcast receiving mode.

"FM Mode" is displayed in the Option menu only when TUNER is selected as the input source.

STEREO Receives in automatic stereo mode by priority.

MONO Receives in monaural mode. You can get a

better reception in monaural mode.

#### **Auto Preset**

Automatically detects FM radio stations and registers them as preset stations (see page 22).

"Auto Preset" is displayed in the Option menu only when TUNER is selected as the input source.

#### **CIr All Preset**

Clears all preset stations (see page 25).

"Clr All Preset" is displayed in the Option menu only when TUNER is selected as the input source.

#### **Parental Lock**

Sets the Parental Lock (see page 32).

"Parental Lock" is displayed in the Option menu only when SIRIUS is selected as the input source.

#### Interlock

Choices: ON\*, OFF

When an iPhone/iPod is connected to this unit wirelessly using a Wireless System for iPod, the iPhone/iPod can be used to turn this unit on, set it to standby mode or select DOCK as the input source.

"Interlock" is displayed in the Option menu only when using a Wireless System for iPod and DOCK is selected as the input source.

ON This unit responds to certain iPhone/iPod

operations.

OFF Disables this feature.

#### Connect/Disconnect

Connects to or disconnects from a Bluetooth component (see page 39).

"Connect/Disconnect" is displayed in the Option menu only when DOCK (Bluetooth) is selected as the input source.

#### **Pairing**

Pairs the Bluetooth Wireless Audio Receiver and a Bluetooth component (see page 38).

"Pairing" is displayed in the Option menu only when DOCK (Bluetooth) is selected as the input source.

## **ADVANCED SETUP**

#### ■ ADVANCED SETUP menu parameters

Change the initial settings to reflect the needs of your listening environment.

`\o':

The default settings are marked with "\*".

#### **REMOTE ID**

Choices: ID1, ID2\*

Changes the remote control ID of this unit.

- Select ID1 to operate this unit using an alternative code
- Select ID2 to operate this unit using the default code.

#### Note

The remote control's ID (see page 44) must be set to the same ID as this unit

#### **SR PIN (SIRIUS Personal Identification Number)**

Choices: CANCEL\*, RESET

Resets the Parental Lock code used to lock/unlock SIRIUS satellite radio channels.

#### **APD (Automatic Power Down) TIMER**

Choices: 4H (4 hours), 8H\* (8 hours), 12H (12 hours) When the POWER MANAGEMENT switch on the rear panel of this unit (see page 7) is set to ON, this unit's Main zone and Zone 2 automatically enters standby mode if this unit is not operated for the specified amount of time.

#### Note

When the POWER MANAGEMENT switch is set to OFF, "APD TIMER -OFF" is displayed.

#### **INITIALIZE**

Choices: NO\*, YES

Resets all parameters to their factory presets.

- Select NO to cancel without resetting all parameters to their factory presets.
- Select YES to reset all parameters to their factory presets.

#### Note

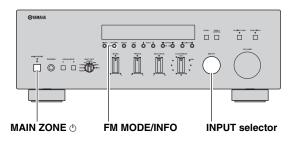
If "YES" is selected the parameters are reset the next time you turn on the power of this unit.

# Changing the ADVANCED SETUP menu parameters

The ADVANCED SETUP menu is displayed in the front panel display.

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- Audio output is muted while setting parameters in the ADVANCED SETUP menu.
- While setting parameters in the ADVANCED SETUP menu, most controls on the front panel are disabled; only MAIN ZONE &, the INPUT selector and FM MODE/INFO are operational.



1 Press and hold FM MODE/INFO on the front panel, and then press MAIN ZONE .
This unit turns on, and the ADVANCED SETUP

menu is displayed on the front panel display.

- 2 Rotate the INPUT selector on the front panel to select the parameter you want to change. See "ADVANCED SETUP menu parameters" on page 43 for a complete list of available parameters.
- 3 Press FM MODE/INFO on the front panel repeatedly to change the selected parameter setting.

To change other settings, repeat steps 2 and 3.

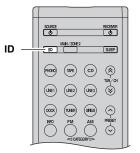
4 Press MAIN ZONE () to set this unit to standby mode to confirm your setting.

#### Note

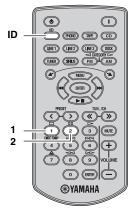
The settings you made take effect the next time you turn on this unit.

## Switching the remote control ID

When using multiple Yamaha receivers or amplifiers with the same default code setting, you may unintentionally operate those components simultaneously. In this case, set one of the alternative codes for this unit to operate this unit separately.







• Switching to ID1
Press and hold the ID button and the numeric button
"1" on the remote control together for about 3 seconds.

Switching to ID2
 Press and hold the ID button and the numeric button
 "2" on the remote control together for about 3 seconds.

Remote control ID* (this unit's setting)	Function
ID1	To operate this unit using an alternative code.
ID2 (default setting)	To operate this unit using the default code.

When you change the remote control ID, you must change the remote control ID of this unit (see page 43).

#### Note

If the remote control batteries are weak or removed, the remote control ID will switch to the default setting (ID2). In this case, replace the batteries and set the remote control ID again.

## ZONE 2

## Connecting Zone 2 components

This unit allows you to configure a multi-room audio system. The Zone 2 feature enables you to set this unit to reproduce separate input sources in the main room and in Zone 2 (the second room) simultaneously. You can control this unit from the second room using the supplied remote control.

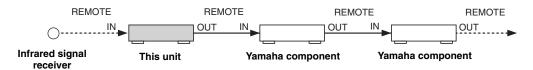
The R-S700 can also be operated using the supplied Zone 2 remote control.

You need the following additional equipment to use the multi-room system of this unit:

- An infrared signal receiver for the second room.
- An infrared emitter for the main room. This emitter transmits the infrared signals sent by the remote control in Zone 2
  to the components in the main room.
- · An amplifier and speakers for the second room.

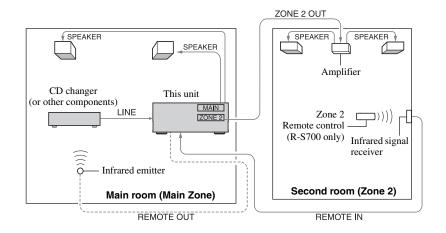
#### `\\\

Some Yamaha models are able to connect directly to the REMOTE OUT jack on the rear panel of this unit. If you own one of these products, you may not need to use an infrared emitter. Up to six Yamaha components can be connected as shown below.



#### Multi-room configuration and connections

The following illustration shows an example of a multi-room system configuration and connections.



#### `\\\

Since there are many possible ways to connect and use this unit in a multi-room configuration, we recommend that you consult with your nearest authorized Yamaha dealer or service center for the Zone 2 connections that best meet your requirements.

#### Note

If you want to adjust the Zone 2 volume level by using the amplifier in the second room, we recommend setting the Zone 2 volume level to or near 2.5 dB.

## Controlling Zone 2

Use the supplied remote control, Zone 2 remote control (R-S700 only) or front panel to control the input source or adjust the sound output level of Zone 2 independently of the listening conditions in the main room.

\* Sound output level can be adjusted on the R-S700 only.

#### Note

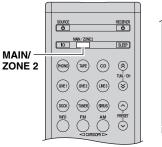
When using the R-S500, follow the procedure described in "Using the remote control" and "Using the front panel".

## Using the Zone 2 remote control (R-S700 only)



- Press | (Zone 2 on) on the Zone 2 remote control to turn on Zone 2.
- 2 Use the Zone 2 remote control as desired. For information about each of the buttons on the Zone 2 remote control, see "Zone 2 remote control (R-S700 only)" on page 10.

#### Using the remote control





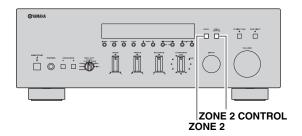
## 1 Change the zone that is operated by the remote control.

- To control the Main zone
   Press and hold the MAIN/ZONE 2 button and the
   numeric button 1 on the remote control together for
   about 3 seconds.
- To control Zone 2
   Press and hold the MAIN/ZONE 2 button and the
   numeric button 2 on the remote control together for
   about 3 seconds.

#### 2 Use the remote control as desired.

For information about the buttons that can be used to control Zone 2, see "Remote control" on page 8. Buttons that can be used to control Zone 2 are indicated by "ZONE" on page 8.

#### Using the front panel



## Press ZONE 2 on the front panel to turn on Zone 2.

## 2 Press ZONE 2 CONTROL on the front panel to control Zone 2.

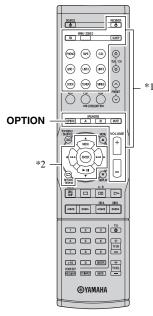
The ZONE 2 indicator on the front panel display blinks for about 10 seconds. During this time, you can control Zone 2 from the front panel. For information about the buttons and controls that can be used to control Zone 2, see "Front panel" on page 4. Buttons and controls that can be used to control Zone 2 are indicated by "ZONE" on page 4.

## REMOTE CONTROL FEATURES

The remote control can be used to control not only this unit, but also seven other audio-visual components (TV, DVD player, VCR, etc.) made by Yamaha and other manufacturers. To control other components with this unit's remote control, you must first configure the remote control to control each component (see page 49).

## Controlling this unit, a TV, or other components

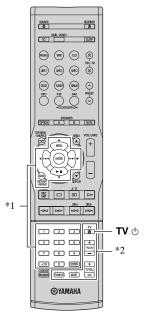
#### ■ Controlling this unit



- \*1 These buttons always control this unit.
- \*2 These buttons control this unit only when OPTION is pressed.

#### ■ Controlling a TV

To use this unit's remote control to control your TV, determine the remote control code that corresponds to your TV and assign that code to the TV  $\circlearrowleft$  button or to another input selector button on the remote control. For details about assigning remote control codes, see page 49.



- \*1 These buttons control your TV if your TV's remote control code has been assigned to an input selector button.
- \*2 These buttons (described below) control your TV if your TV's remote control code has been assigned to the TV  $\odot$  button or to an input selector button.

TV control button	Function
TV Ф	Turns the TV on and off.
TV CH +/-	Changes the TV's channel.
TV VOL +/-	Adjusts the TV's volume.
TV INPUT	Changes the TV's input source.
MUTE	Mutes the TV's audio output.

#### Notes

- When using only one TV: Assign the TV's remote control code to the TV \( \Delta \) button. The TV control buttons always control your TV, regardless of the selected input source.
- To use other buttons (\*1, above) to control your TV: Assign the TV's remote control code to the TV  $\odot$  button, and also to an input selector button. The TV control buttons always control your TV, regardless of the selected input source. You can use the other buttons to operate the TV by first pressing the input selector button to which the TV is assigned.
- To control more than one TV: Assign one TV to the TV © button and the other TVs to other input selector buttons. You can control the other TVs assigned by first pressing the input selector button to which a TV is assigned. You can use the TV control buttons to control the first TV whenever an input selector button with no TV assigned to it is selected.

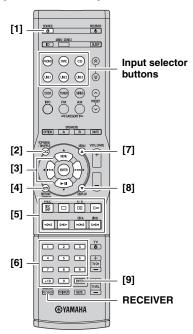
#### Controlling other components

To use this unit's remote control to control other components (DVD player, VCR, etc.), determine the remote control code that corresponds to the component and assign that code to the desired input selector button on the remote control. For details about assigning remote control codes, see page 49.

To switch the input source and control the corresponding component, press the input selector button on the remote control, and then press the desired control button.

\\\\

If you are unable to operate this unit after using the remote control to operate an external component, press RECEIVER and then try operating the remote control again.

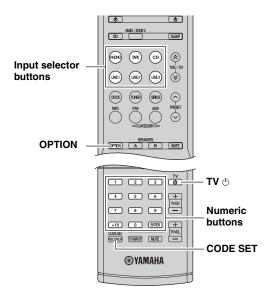


The following table is an example of the component features that may be controlled using this remote control. Note that some features of the corresponding component may not be supported, and that some buttons may not correctly control the selected component.

	Remote control	Feature (example)
F4.1		· ,
[1]	SOURCE ()	Power
[2]	TOP MENU	Title
[3]	Δ	Up
	$\nabla$	Down
	△	Left
	$\triangleright$	Right
	ENTER	Enter
[4]	RETURN	Return
[5]	DISC SKIP/REC	Disc skip (player)
		Rec (recorder)
	$\triangleright$	Play
	<4<	Search backward
	$\triangleright \triangleright$	Search forward
	00 /A/B	Pause (player, recorder)
		Deck A/B (tape deck)
	IN A /DIR A	Skip backward (player, recorder) Direction A (tape deck)
	⊳⊳ /DIR B	Skip forward (player, recorder) Direction B (tape deck)
		Stop
[6]	1-9, 0, +10	Numeric buttons
[7]	MENU	Menu
[8]	DISPLAY	Display
[9]	ENTER	Title/Index

## Configuring the remote control

To use this unit's remote control to control other components (TV, DVD player, VCR, etc.), determine the remote control code that corresponds to the component and assign that code to the desired input selector button on the remote control. Remote control codes are listed in the "LIST OF REMOTE CONTROL CODES" at the end of this manual.



#### ■ Default remote control configuration

The remote control is configured at the factory as shown below.

Button	Component category	Manufacturer	Default code
CD	CD player	Yamaha	5082
TAPE	TAPE deck	Yamaha	5087
PHONO	_	_	_
LINE 1	CD recorder	Yamaha	5083
LINE 2	DVD player	Yamaha	2082
LINE 3	Blu-ray disc player	Yamaha	2064
ТV ტ	_	_	_

#### Note

If you cannot operate a Yamaha component when the remote control is configured using the remote control code listed above, refer to the "LIST OF REMOTE CONTROL CODES" at the end of manual and try assigning a different Yamaha remote control code.

#### ■ Assigning remote control codes

- 1 Refer to the "LIST OF REMOTE CONTROL CODES" at the end of this manual and determine the remote control code that corresponds to each of your components.

  Components are listed by category (TV, VCR, DVD player, etc.) and manufacturer.
- 2 Press and hold CODE SET on the remote control for more than 3 seconds.
- 3 Press an input selector button on the remote control to select the input source you want to configure.

You can also press  $TV \oplus to$  configure the TV control buttons (see page 47).

4 Use the numeric buttons on the remote control to enter the four-digit remote control code corresponding to the component you want to assign.

When the component has been assigned, "OK" is displayed on the front panel display. If an error occurs, "NG" is displayed.

#### Notes

- If the manufacturer of your component has more than one remote control code, assign each code one at a time until you find the code that successfully controls your component.
- You can only assign one remote control code to each input selector button.

#### Resetting the remote control

Use this procedure to reset the remote control codes assigned to each input selector to the factory default (see "Default remote control configuration" above).

#### Note

This procedure will be cancelled if you do not press any buttons for 1 minute. If the procedure is cancelled, repeat from step 1 if necessary.

- 1 Press and hold CODE SET on the remote control for more than 3 seconds.
- 2 Press OPTION on the remote control.
- 3 Use the numeric buttons on the remote control to enter "9981".

The remote control code assigned to each input selector button will be reset to its factory default code.

## **TROUBLESHOOTING**

Refer to the chart below if this unit does not function properly. If the problem you are experiencing is not listed below or if the instructions below do not help, set this unit to standby mode, disconnect the power cable, and contact the nearest authorized Yamaha dealer or service center.

#### ■ General

Problem	Cause	Remedy	See page
This unit fails to turn on.	The power cable is not connected or the plug is not completely inserted.	Connect the power cable firmly.	_
	The impedance setting is incorrect.	Set the impedance to match your speakers.	13
	The protection circuitry has been activated because of a short circuit, etc.	Check that the speaker wires are not touching each other and then turn the power of this unit back on.	12
	The IMPEDANCE SELECTOR switch on the rear panel is not set to either end.	Set the IMPEDANCE SELECTOR switch to either end when the power of this unit is turned off.	13
	This unit has been exposed to a strong external electric shock (such as lightning or strong static electricity).	Set this unit to standby mode, disconnect the power cable, plug it back in after 30 seconds, then use it normally.	_
No sound	Incorrect input or output cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	12
	No appropriate input source has been selected.	Select an appropriate input source with the INPUT selector on the front panel (or one of the input selector buttons on the remote control).	16
	The SPEAKERS A/B switches are not set properly.	Turn on the corresponding SPEAKERS A or SPEAKERS B.	16
	Speaker connections are not secure.	Secure the connections.	12
	Output has been muted.	Turn off the mute.	8
	The MaxVol or IniVol setting is set too low.	Set the setting to a higher value.	40
	The component corresponding to the selected input source is turned off or is not playing.	Turn the component on and make sure it is playing.	
The sound suddenly goes off.	The protection circuitry has been activated because of a short circuit, etc.	Check that the IMPEDANCE SELECTOR switch is set to the correct position.	13
		Check that the speaker wires are not touching each other and then turn the power of this unit back on.	12
	This unit has become too hot.	Make sure the openings on the top panel are not blocked.	l
	The automatic power down function has turned this unit off.	Change the automatic power down setting ("APD TIMER" in the Advanced Setup menu) to a longer setting, or disable the automatic power down function by setting the POWER MANAGEMENT switch on the rear panel to OFF.	43
Only the speaker on one side can be	Incorrect cable connections.	Connect the cables properly. If the problem persists, the cables may be defective.	12
heard.	Incorrect setting for the BALANCE control.	Set the BALANCE control to the appropriate position.	18
There is a lack of bass and no ambience.	The + and – wires are connected in reverse at the amplifier or the speakers.	Connect the speaker wires to the correct + and – phase.	12

Problem	Cause	Remedy	See page
A "humming" sound can be heard.	Incorrect cable connections.	Connect the audio plugs firmly. If the problem persists, the cables may be defective.	12
	No connection from the turntable to the GND terminal.	Make the GND connection between the turntable and this unit.	12
The volume level is low while playing a record.	The record is being played on a turntable with an MC cartridge.	The turntable should be connected to this unit through the MC head amplifier.	
The volume level cannot be increased, or the sound is distorted.	The component connected to the TAPE REC or LINE 1 REC output jacks of this unit is turned off.	Turn on the power of the component.	1
The sound is degraded when listening with the headphones connected to the CD player or the tape deck connected to this unit.	The power of this unit is turned off, or this unit is set to standby mode.	Turn on the power of this unit.	16
The sound level is low.	The loudness control function is operating.	Turn down the volume, set the LOUDNESS control to the FLAT position, and then adjust the volume again.	18
The input source cannot be changed although the INPUT selector is rotated.	The CD DIRECT AMP switch is turned on (R-S700 only).	Turn off the CD DIRECT AMP switch.	17
Using the BASS, TREBLE, BALANCE and LOUDNESS controls does not affect the tonal quality.	The CD DIRECT AMP (R-S700 only) or the PURE DIRECT switch is turned on.	The CD DIRECT AMP or the PURE DIRECT switch must be turned off to use those controls.	17

### **■** Tuner

	Problem	Cause	Remedy	See page
	FM stereo reception is	The particular characteristics of the FM stereo broadcasts being received may	Check the antenna connections.  Try using a high-quality directional FM antenna.	14
	noisy.	cause this problem when the transmitter is too far away or the antenna input is poor.	Switch to monaural mode.	21
FM	There is distortion, and clear reception cannot be obtained even with a good FM antenna.	There is multipath interference.	Adjust the antenna position to eliminate the multipath interference.	_
	The desired station cannot	The signal is too weak.	Try using a high-quality directional FM antenna.	14
	be tuned in with the automatic tuning method.		Try using the manual tuning method.	21
FM/	NO PRESETS is displayed.	No preset stations are registered.	Register stations you want to listen to as preset stations before operation.	22
AM	WRONG STATION is displayed.	An invalid FM/AM frequency has been input.	Input a frequency that can be received.	21
	The desired station cannot	The signal is weak or the antenna connections are loose.	Tighten the AM loop antenna connections and orient it for the best reception.	_
	be tuned in with the automatic tuning method.		Try using the manual tuning method.	21
АМ	Automatic station preset does not work.	Automatic station preset is not available for AM stations.	Use manual station preset.	23
	There are continuous crackling and hissing noises.	The noises may result from lightning, fluorescent lamps, motors, thermostats or other electrical equipment.	Try using an outdoor antenna and a ground wire. This will help somewhat, but it is difficult to eliminate all noise.	_
	There are buzzing and whining noises.	A TV set is being used nearby.	Move this unit away from the TV set.	_

### ■ SIRIUS Satellite Radio<sup>TM</sup>

The following messages may be displayed on the front panel display in certain situations.

Message	Status/Cause	Remedy	See page
ANTENNA ERROR	The antenna is not connected to the SiriusConnect tuner properly.	Check the connection of the antenna and SiriusConnect tuner.	27
SIRIUS LOADING	This unit is communicating with the SiriusConnect tuner.	The message disappears normally within several tens of seconds.	_
CHECK SR TUNER	The SiriusConnect tuner is not connected to the SIRIUS jack of this unit correctly.	Check the connection of the SiriusConnect tuner and this unit.	27
	The SiriusConnect tuner is not connected to the AC wall outlet.	Connect the power cable of the SiriusConnect tuner to the AC wall outlet.	_
NOT SUPPORTED	This unit does not support the connected SIRIUS Satellite Radio tuner.	Connect the SiriusConnect tuner that this unit supports,	_
ACQUIRING	The signal is too weak.	Adjust the orientation of the antenna of the SiriusConnect tuner. Check the antenna reception level from the Antenna information on the front panel display.	34
UPDATING	The SiriusConnect tuner is updating the channel list.	Wait until the updating is complete.	_
	The period of the subscription is end.	Contact SIRIUS Satellite Radio to renew the subscription.	_
F/W UPDATING	The SiriusConnect tuner is updating the firmware.	Wait until the updating is complete.	_
CALL SIRIUS (CALL 888-539- SIRIUS TO SUBSCRIBE)	The selected channel is not subscribed.	Contact SIRIUS Satellite Radio to subscribe the selected channel. URL: https://activate.siriusradio.com/ Phone: 1-888-539-SIRIUS (1-888-539-7474)	_
		Select another channel.	28
SUB UPDATED	The subscription information is updated.		_
INVALID	The selected channel is currently out of service.	Select another channel.	28
NOT AVAILABLE	The operation you made is not available.		_

### ■ iPhone/iPod

The following messages may be displayed on the front panel display in certain situations.

Message	Status/Cause	Remedy	See page
Connect error	There is a problem with the signal path from your iPhone/iPod to the unit.	Turn off the unit and reconnect the Universal Dock for iPod to the DOCK jack of the unit.	35
		Remove your iPhone/iPod from the Universal Dock for iPod and then place it back in the dock.	35
Unknown iPod	The iPhone/iPod being used is not supported by the unit.	Connect an iPhone/iPod supported by the unit.	35
Connected	Your iPhone/iPod is properly placed in the Universal Dock for iPod.		_
	Your iPhone/iPod is properly placed in the Wireless System for iPod and connected with this unit via wireless transmission.		37
Disconnected	Your iPhone/iPod is removed from the Universal Dock for iPod.		_
	Your iPhone/iPod is disconnected with this unit via wireless transmission.		
	The wireless connection is poor.	Place the YID-W10 receiver as far away from this unit as possible.	35

Problem	Cause	Remedy	See page
When using the Universal Dock for iPod: Your iPhone/iPod is not being charged even though it is connected to the Universal Dock for iPod.	The iPhone/iPod is not connected securely.	Connect the iPhone/iPod securely to the Universal Dock for iPod.	1
When using the Wireless System for iPod: Your iPhone/iPod is not being charged even though the YID-W10 transmitter connected to your iPhone/iPod is stationed in the YID-W10 receiver.	The YID-W10 transmitter is not stationed securely in the YID-W10 receiver.	Station the YID-W10 transmitter connected to your iPhone/iPod securely in the YID-W10 receiver.	

### ■ Bluetooth™

The following messages may be displayed on the front panel display in certain situations.

Message	Status/Cause	Remedy	See page
Searching	The Bluetooth Wireless Audio Receiver and the Bluetooth component are in the process of pairing.		_
	The Bluetooth Wireless Audio Receiver and the Bluetooth component are in the process of establishing a connection.		_
Completed	The pairing is completed.		_
Canceled	The pairing is canceled.		_
Connected	The connection between the Bluetooth Wireless Audio Receiver and the Bluetooth component is established.		_
Disconnected	The Bluetooth component is disconnected from the Bluetooth Wireless Audio Receiver.		_
Not found	The Bluetooth component is not found.	During pairing:  - pairing must be performed on the Bluetooth component and this unit simultaneously. Check if the Bluetooth component is in pairing mode.  During connecting:  - check if the Bluetooth component is turned on.  - check if the Bluetooth component is within 10 m (32 feet) of the Bluetooth Wireless Audio Receiver.	_
	Pairing may not have been achieved.	Try pairing again.	38

### ■ Remote control

Problem	Cause	Remedy	See page
The remote control does not work nor function properly.	Wrong distance or angle.	The remote control will function within a maximum range of 6 m (20 ft) and no more than 30 degrees offaxis from the front panel.	11
	Direct sunlight or lighting (from an inverter type of fluorescent lamp, etc.) is striking the remote control sensor of this unit.	Reposition this unit.	l
	The batteries are weak.	Replace all batteries.	11
	The remote control ID and this unit's ID do not match.	Switch the remote control ID or this unit's ID.	44
	The remote control code was not correctly set.	Try setting another code of the same manufacturer using "LIST OF REMOTE CONTROL CODES" at the end of this manual.	49
	Even if the remote control code is correctly set, there are some models that do not respond to the remote control.	Use the supplied remote control for the components.	
	You did not press the input selector button corresponding to the component you are trying to control.	Press the input selector button corresponding to the component you are trying to control, and then press the desired remote control button(s).	_
	The remote control is not set to the correct zone.	Set the remote control to the correct zone, the Main zone or Zone 2, and then operate the remote control.	46
	If the remote control batteries are weak or removed, the remote control ID and zone will switch to the default settings (ID2 and Main zone).	Replace all batteries, and then set the remote control ID and zone again.	44, 46

## **SPECIFICATIONS**

AUDIO SECTION
• Minimum RMS output power [R-S700]
(8 $\Omega$ , 20 Hz to 20 kHz, 0.019% THD)
[R-S500] (8 $\Omega$ , 20 Hz to 20 kHz, 0.04% THD)
• Dynamic power per channel (IHF) $(8/6/4/2 \Omega)$
[R-S700]
<ul> <li>Maximum power per channel [Europe model only]</li> <li>(1 kHz, 0.7% THD, 4 Ω)</li> </ul>
[R-S700]
• IEC power [Europe model only] [R-S700] (1 kHz, 0.019% THD, 8 Ω)
[R-S500] (1 kHz, 0.04% THD, 8 Ω)
[R-S700] (0.06% THD, 50 W, 8 $\Omega$ )
[R-S500] (0.06% THD, 37.5 W, 8 $\Omega$ ) 10 Hz to 50 kHz • Damping factor (SPEAKERS A)
1 kHz, 8 Ω [R-S700]
[R-S500]
Maximum effective output power (JEITA)     [Asia (R-S500 only) and Central/South America models only]
[R-S700] (1 kHz, 10% THD, 8/6 Ω)
• Input sensitivity/Input impedance
PHONO (MM)
CD, etc
Maximum input signal
PHONO (MM) (1 kHz, 0.003% THD)
Output level/Output impedance
CD, etc. (Input 1 kHz, 200 mV) REC 200 mV/1.0 kΩ
CD, etc. (Input 1 kHz, 200 mV, 8 $\Omega$ ) PHONES
Frequency response
CD, etc. (20 Hz to 20 kHz) $0 \pm 0.5 \text{ dB}$ [R-S700] CD, etc., PURE DIRECT on/MAIN IN
(10 Hz to 100 kHz)
[R-S500] CD, etc., PURE DIRECT on (10 Hz to 100 kHz) 0 ± 1.0 dB
RIAA equalization deviation     PHONO (MM) ± 0.5 dB
• Total harmonic distortion
PHONO (MM) to REC
(20 Hz to 20 kHz, 3 V)
CD, etc. to PRE OUT
(20 Hz to 20 kHz, 1 V) 0.005% or less CD, etc. to SPEAKERS
(20 Hz to 20 kHz, 50 W, 8 Ω) 0.015% or less [R-S500]
CD, etc. to SPEAKERS
(20 Hz to 20 kHz, 37.5 W, 8 $\Omega$ )
PHONO (MM) (5 mV input shorted) 87 dB or more
CD, etc., PURE DIRECT on (200 mV input shorted) 100 dB or more
[R-S700] CD, CD DIRECT AMP on
(200 mV input shorted)
Channel separation
CD, etc. (5.1 k $\Omega$ input shorted, 1/10 kHz) 65/50 dB or more

AIIUNS	
Tone control characteristics	
BASS Boost/Cut (50 Hz)	± 10 dD
Turnover Frequency	
TREBLE	
Boost/Cut (20 kHz)	
Turnover Frequency	3.5 kHz
Continuous loudness control	20 ID
Attenuation (1 kHz)	
• Gain tracking error (0 to –99 dB)	0.3 dB of less
FM SECTION	
Tuning range	
[U.S.A. and Canada models]	
[Asia (R-S500 only) and Central/South	
[Europe, Russia and Australia models] • 50 dB quieting sensitivity (IHF, 1 kHz, 10	
Mono	
Signal to noise ratio (IHF)	3.0 μ ν (20.0 αΒ1)
Mono/Stereo	74 dB/70 dB
<ul> <li>Harmonic distortion (1 kHz)</li> </ul>	
Mono/Stereo	0.3%/0.3%
AM SECTION	
<ul> <li>Tuning range     [U.S.A. and Canada models]</li> </ul>	530 to 1710 kHz
[Asia (R-S500 only) and Central/South	
	520/521 to 1710/1611 LU-
	330/331 to 1/10/1011 KHZ
[Europe, Russia and Australia models]	
[Europe, Russia and Australia models]	
[Europe, Russia and Australia models]  GENERAL	
[Europe, Russia and Australia models]  GENERAL  • Power supply	531 to 1611 kHz
[Europe, Russia and Australia models]  GENERAL  • Power supply  [U.S.A. and Canada models]	531 to 1611 kHz
[Europe, Russia and Australia models]  GENERAL  • Power supply [U.S.A. and Canada models][Central/South America models]	531 to 1611 kHz
[Europe, Russia and Australia models]  GENERAL  • Power supply  [U.S.A. and Canada models]  [Central/South America models] AC 110  [Australia model]	
[Europe, Russia and Australia models]  GENERAL  • Power supply [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply   [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply  [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply  [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply  [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply  [U.S.A. and Canada models]  [Central/South America models]  [Australia model]  [Europe and Russia models]  [Asia model (R-S500 only)]  • Power consumption  [R-S700]  [U.S.A. and Canada models]  [Other models]  [R-S5000]  [Asia model]  [Asia model]  [Other models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply  [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply [U.S.A. and Canada models]	
[Europe, Russia and Australia models]  GENERAL  • Power supply  [U.S.A. and Canada models]  [Central/South America models]  [Australia model]  [Europe and Russia models]  [Asia model (R-S500 only)]  • Power consumption  [R-S700]  [U.S.A. and Canada models]  [Other models]  [R-S500]  [Asia model]  [Other models]  • Standby power consumption  • YID-W10 standby power consumption  (YID-W10 connect)  • iPod charge power consumption  [R-S700]  [R-S500]	
[Europe, Russia and Australia models]  GENERAL  • Power supply  [U.S.A. and Canada models]  [Central/South America models]  [Australia model]  [Europe and Russia models]  [Asia model (R-S500 only)]  • Power consumption  [R-S700]  [U.S.A. and Canada models]  [Other models]  [R-S500]  [Asia model]  [Other models]  • Standby power consumption  • YID-W10 standby power consumption  (YID-W10 connect)  • iPod charge power consumption  [R-S700]  [R-S500]  • Maximum power consumption [Central/S	
[Europe, Russia and Australia models]  GENERAL  • Power supply [U.S.A. and Canada models]	
Europe, Russia and Australia models     GENERAL     Power supply	
[Europe, Russia and Australia models]  GENERAL  • Power supply [U.S.A. and Canada models]	
Europe, Russia and Australia models     GENERAL     Power supply	
Europe, Russia and Australia models     GENERAL     Power supply	
Europe, Russia and Australia models     GENERAL     Power supply	

<sup>\*</sup> Specifications are subject to change without notice.

## LIST OF REMOTE CONTROL CODES

		Autovox	0171, 0282, 0337,	Coby	0197	Electa	0348
TV			0339, 0342	Colortyme	0008, 0026	ELECTRO TECH	0343
TV		Aventura	0051	Commercial So	lutions	Electroband	0055, 0107
A.R. Systems	0320	Awa	0277, 0282		0021	Electrograph	0176
Acme	0342	Axion	0156	Concerto	0008, 0026	Electrohome	0008, 0026, 0052,
Acura	0323, 0343	Baird	0282	Concorde	0323, 0343		0055
ADC	0337	Bang & Olufser		Condor	0161, 0277, 0320,	Element	0230
Admiral	0054, 0178, 0336,	Basic Line	0282, 0320, 0323,		0323, 0342, 0350,	Elin	0277, 0320, 0323
	0337, 0339, 0346,		0340, 0343, 0350	~	0351	****	0342, 0349, 0350
	0347	Bastide	0282, 0342	Contec	0179, 0277, 0323,	Elite	0320, 0340, 0350
Advent	0158	Baur	0320, 0349	0 10	0342, 0343, 0344	Elman	0341
Adventura	0057	Bazin	0282	Contec/Cony	0012, 0058	Elta	0277, 0323, 0343
Adyson Agashi	0277, 0282, 0342	Beko	0161, 0269, 0294, 0302, 0311, 0320,	Continental Edi	0345	Emerson	0000, 0007, 0008
Agasii	0277, 0282 0337		0302, 0311, 0320, 0328, 0351	Cosmel	0323, 0343		0012, 0013, 0019, 0026, 0031, 0037,
Aiko	0277, 0282, 0320,	Belcor	0008	Craig	0058, 0179		0051, 0058, 0059
ZIRO	0323, 0342, 0343	Bell & Howell	0019, 0054	Crosley	0010, 0037, 0171,		0161, 0179, 0320
Aim	0320	Beng	0097, 0242, 0361	crossey	0339		0339
Aiwa	0078, 0379	Beon	0320, 0349, 0350	Crown	0058, 0161, 0171,	Emprex	0154
Akai	0050, 0055, 0109,	Best	0161		0179, 0320, 0323,	Envision	0008, 0026, 0050
	0159, 0181, 0277,	Bestar	0161, 0320, 0350		0343, 0349, 0350,	Epson	0155, 0206, 0359
	0282, 0320, 0323,	Binatone	0282, 0342		0351	Erres	0320, 0349, 0350
	0340, 0343, 0349,	Blue Sky	0320, 0340	CS Electronics	0277, 0340, 0342	ESA	0051
	0350	Blue Star	0348	CTC Clatronic	0341	ESC	0282
Akiba	0320, 0340	Boots	0282, 0342	CTX	0205	Etron	0343
Akura	0320, 0323, 0337,	BPL	0320, 0348	Curtis Mathes	0007, 0008, 0010,	Eurofeel	0282
	0340	Bradford	0058, 0179		0019, 0021, 0026,	Euro-Feel	0337
Alaron	0277	Brandt	0322, 0345		0049, 0050, 0178	Euroline	0349
Alba	0161, 0277, 0320,	Brillian	0182	CXC	0058, 0179	Euroman	0161, 0277, 0282
	0323, 0340, 0342,	Brinkmann	0320	Cybertron	0340	Euromann	0320, 0337, 0342,
	0343, 0344, 0349,	Brionvega	0320, 0339, 0349,	Cytron	0152		0350
A 11 .	0351, 0372, 0382	D :: :	0350	Daewoo	0007, 0008, 0026,	Europhon	0277, 0282, 0320,
Albatron	0140	Britannia	0277, 0282, 0342		0037, 0053, 0167,	F .	0341, 0342, 0350
Allegon	0171	Brockwood	0008		0266, 0275, 0277,	Expert	0321
Alleron	0059 0282	Broksonic Bruns	0109, 0179 0339		0282, 0315, 0320,	Exquisit Fenner	0320 0323, 0343
Allorgan Allstar	0320, 0350	BTC	0340		0323, 0331, 0335, 0342, 0343, 0350,	Ferguson	0322, 0345, 0349
America Action		Bush	0269, 0282, 0283,		0342, 0343, 0330,	Fidelity	0277, 0320, 0342,
AMOi	0276	Dusii	0304, 0320, 0323,	Dainichi	0277, 0340	ridenty	0346
Amplivision	0161, 0282, 0321,		0328, 0332, 0340,	Dansai	0277, 0310	Filsai	0282
· impirvision	0342		0343, 0344, 0346,	Dunsur	0337, 0349, 0350	Finlandia	0346
Amstrad	0320, 0323, 0337,		0348, 0349, 0350,	Dantax	0161, 0349	Finlux	0171, 0282, 0320,
	0340, 0343		0372, 0382, 0463,	Dawa	0320		0339, 0341, 0342,
Amtron	0058		0470, 0472	Daytron	0007, 0008, 0026,		0349, 0350
Anam	0179, 0343	Candle	0008, 0026, 0050,		0323, 0343	FIRST LINE	0342, 0343, 0350
Anam National	0052, 0058		0057	De Graaf	0346	Firstline	0277, 0282, 0320,
Anglo	0323, 0343	Capsonic	0337	Decca	0282, 0320, 0342,		0323
Anitech	0171, 0320, 0323,	Carena	0320		0349, 0350	Fisher	0019, 0161, 0282,
	0337, 0343	Carnivale	0050	Dell	0145, 0245		0339, 0342, 0344,
Ansonic	0161, 0168, 0320,	Carrefour	0344	Denver	0358, 0362		0351
	0323, 0341, 0343	Carver	0010	Desmet	0320, 0349, 0350	Flint	0320, 0350
AOC	0008, 0026, 0050,	Cascade	0320, 0323, 0343	Diamant	0320	Formenti	0171, 0277, 0336,
	0053	Casio	0367	Diamond	0277	E ('/DI '	0339, 0342, 0349
Apex	0039, 0111, 0217	Cathay	0320, 0349, 0350	DiamondVision		Formenti/Phoenix	0277
Arcam Delta	0277, 0282	CCE	0183, 0282	Dimensia	0049	Fortress	0336, 0339
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ASA	0339, 0347	Century	0320, 0349, 0330	Dream Vision	0343, 0349, 0350 0461, 0498	riontech	0343, 0346, 0347
Asberg	0171, 0320, 0350	CGE	0161, 0171	DTS DTS	0323, 0343	Fujitsu	0059, 0069, 0074,
Astra	0343	Changhong	0039	Dual	0282, 0320, 0342	1 ujitsu	0075, 0282
Asuka	0277, 0282, 0337,	Chimei	0273	Dual-Tec	0342, 0343	Fujitsu General	
	0340, 0342	Cimline	0323, 0343	Dumont	0008, 0030, 0062,		0504, 0505, 0507,
Atlantic	0277, 0320, 0342,	Citizen	0007, 0008, 0026,	<del></del>	0282, 0339, 0341,	.,	0510, 0511
	0349, 0350	- · · · · ·	0050, 0058		0342	Funai	0051, 0058, 0059,
Atori	0323, 0343	City	0323, 0343	Durabrand	0031, 0051, 0179,		0112, 0113, 0115,
Auchan	0321	Clarion	0179		0215		0118, 0119, 0179,
Audiosonic	0161, 0282, 0320,	Clarivox	0349	Dux	0349		0337
	0340, 0342, 0343,	Clatronic	0161, 0171, 0282,	Dwin	0178	Futuretech	0058, 0179
	0349, 0350		0320, 0323, 0337,	Dynatron	0320, 0349, 0350	Galaxi	0320, 0351
AudioTon	0161, 0282, 0342		0340, 0342, 0343,	Dynex	0228, 0231	Galaxis	0161, 0320
Audiovox	0058, 0179, 0194		0350, 0351	Elbe	0161, 0168, 0282,	Gateway	0176, 0177, 0241
Ausind	0171	CMS	0277		0320	GBC	0323, 0343, 0344
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GE	0008, 0021, 0023,	Hitachi	0008, 0012, 0026,	Kapsch	0347	Manesth	0282, 0320, 0337,
	0026, 0027, 0031,		0066, 0084, 0092,	Karcher	0161, 0320, 0342,		0342, 0349, 0350
	0034, 0049, 0052,		0093, 0120, 0172,		0343, 0349	Marantz	0008, 0010, 0026,
	0056, 0209		0173, 0255, 0270,	Kawasho	0008, 0026, 0055,		0050, 0204, 0320,
Geant Casino	0321		0271, 0282, 0320,		0277		0349, 0350
GEC	0282, 0320, 0342,		0335, 0338, 0342,	KEC	0179	Marelli	0339
	0347, 0349, 0350		0344, 0346, 0347,	Kendo	0161, 0320, 0341,	Mark	0277, 0282, 0320,
Geloso	0323, 0343, 0346		0365, 0382, 0448,		0346		0323, 0349, 0350
General Techn			0456, 0467	Kenwood	0008, 0026, 0050	Masuda	0282
Genexxa	0320, 0340, 0347,	Hornyphon	0320, 0350	KIC	0282	Matsui	0282, 0320, 0323,
	0350	Hoshai	0340	Kingsley	0277, 0342		0342, 0343, 0344,
GFM	0128, 0227	Huanyu	0277, 0342	KLH	0039		0346, 0349, 0350,
Giant	0282	Hygashi	0277, 0282, 0342	Kloss Novabeam	0057, 0058		0455
Gibralter	0008, 0030, 0050,	Hyper	0277, 0282, 0323,	Kneissel	0161, 0168, 0320	Matsushita	0017
Cicrance	0062	11) per	0342, 0343	Kolster	0320, 0350	Maxent	0147, 0176
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GoldStar	0007, 0008, 0012,		0349, 0350	Korting	0161, 0339	Megapower	0140
Goldottii	0026, 0031, 0050,	Hyundai	0141	Kosmos	0320	Megatron	0026, 0031
	0053, 0161, 0277,	Iberia	0320	Koyoda	0343	MElectronic	0277, 0282, 0320,
	0282, 0320, 0323,	ICE	0277, 0282, 0320,	KTV	0007, 0050, 0058,	MElectronic	0323
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Goodmans	0246, 0272, 0282,	ICeS	0277	Kyoto	0277, 0282	MCHIOTCA	0053, 0054, 0137,
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	0343, 0344, 0349,		0161, 0171, 0320,	Lenco	0323, 0343	Memphis	0323, 0343
	0350, 0462, 0473,	Imperial		Lenoir	0323, 0342, 0343	Mercury	0320, 0323
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Gorenje	0161, 0351	Indiana	0320, 0349, 0350	1.0	0350	MGA	0008, 0026, 0031,
GPM	0340	Infinity	0010	LG	0031, 0053, 0066,	. · ·	0050, 0053
GPX	0129	InFocus	0250, 0327, 0363,		0116, 0117, 0140,	Micromaxx	0337, 0343
Gradiente	0240	Y 1	0479, 0508		0161, 0164, 0175,	Microstar	0337, 0343
Graetz	0347	Ingelen	0347		0195, 0269, 0277,	Midland	0007, 0021, 0023,
Granada	0171, 0282, 0320,	Ingersol	0323, 0343		0282, 0300, 0309,		0027, 0030, 0056,
	0321, 0342, 0344,	Initial	0153		0317, 0320, 0323,	3.61	0062
~	0346, 0349, 0350	Inno Hit	0171, 0282, 0320,		0328, 0342, 0343,	Minerva	0171
Grandin	0340, 0343, 0348,		0323, 0340, 0342,		0346, 0349, 0350,	Minoka	0320, 0350
	0349		0343, 0349, 0350		0366, 0368, 0377,	Mintek	0153
Gronic	0282	Innovation	0337, 0343		0466, 0471, 0478	Mitsubishi	0008, 0026, 0031,
Grundig	0160, 0161, 0171,	Insignia	0131, 0228, 0236,	LG/GoldStar	0164		0053, 0066, 0084,
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Grunpy	0058, 0059, 0179	Inteq	0030	Liesenkotter	0320		0178, 0289, 0320,
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Halifax	0277, 0282, 0337,	Interbuy	0323, 0343	Lifetec	0320, 0323, 0337,		0376
	0342	Interfunk	0161, 0320, 0339,		0343	Mivar	0161, 0168, 0171,
Hallmark	0008, 0026, 0031		0347, 0349, 0350	Lloyds	0323		0277, 0282, 0342
Hampton	0277, 0282, 0342	International	0277	Loewe	0161, 0168, 0265,	Monivision	0140
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	0320, 0323, 0342,		0337, 0341, 0342	Loewe Opta	0339, 0349, 0350		0054
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Hantarex	0320, 0323, 0343		0350		0349	MTC	0008, 0026, 0050,
Hantor	0320	Isukai	0320, 0340	Lumatron	0282, 0320, 0346,		0053, 0161, 0277
Harman/Kardo		ITC	0282, 0342		0349, 0350	Multi System	0349
Harvard	0058, 0179	ITS	0277, 0320, 0340,	Lux May	0350	Multitech	0058, 0161, 0179,
Harwood	0320, 0323		0348, 0350	Luxman	0008, 0026		0183, 0277, 0282,
Havermy	0178	ITT	0343, 0347	Luxor	0282, 0342, 0346		0320, 0323, 0341,
HCM	0282, 0320, 0323,	ITV	0320, 0343, 0349	LXI	0010, 0019, 0021,		0342, 0343, 0344,
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	0348	JBL	0010		0049, 0111	Murphy	0277, 0342
Hema	0282, 0323	JC Penney	0007, 0008, 0026,	M Electronic	0342, 0343, 0345,	NAD	0026, 0031, 0111
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Higashi	0277		0056	MAG	0096	NEC	0008, 0026, 0050,
HiLine	0320	JCB	0055, 0107	Magnadyne	0339, 0341, 0349		0052, 0053, 0072,
Hinari	0320, 0323, 0340,	Jensen	0008, 0026	Magnafon	0171, 0277, 0341,		0103, 0282, 0344
	0343, 0344, 0349,	JVC	0012, 0014, 0015,		0342	Neckermann	0161, 0282, 0320,
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Hisawa			0067, 0169, 0174,	=	0013, 0026, 0032,		0349, 0350, 0351
msawa	0321, 0340, 0348						
Hisense	0321, 0340, 0348 0247		0297, 0314, 0344,		0033, 0048, 0050,	NEI	0320, 0349, 0350
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		Kaisui	0297, 0314, 0344,				
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		Kaisui Kamosonic	0297, 0314, 0344, 0350, 0375 0277, 0282, 0320, 0323, 0340, 0342,	-	0128, 0211, 0212, 0224, 0226, 0239 0337, 0343	Net-TV Neufunk New Tech	0176 0320, 0323 0343, 0350
			0297, 0314, 0344, 0350, 0375 0277, 0282, 0320, 0323, 0340, 0342, 0343, 0348	Majestic	0128, 0211, 0212, 0224, 0226, 0239 0337, 0343 0054	Net-TV Neufunk New Tech New World	0176 0320, 0323 0343, 0350 0340

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Nikko	0026, 0031, 0050		0122, 0128, 0134,	RCA	0008, 0021, 0024,		0382
Nobliko	0171, 0277, 0341,		0186, 0187, 0213,		0025, 0026, 0027,	SEI	0320
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Nokia	0347		0239, 0256, 0257,		0053, 0063, 0136,	Seleco	0344, 0346, 0347
Norcent	0201		0259, 0261, 0263,		0225	Sencora	0323, 0343
Nordic	0282		0267, 0280, 0281,	Realistic	0019, 0031, 0050,	Sentra	0323
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Novatronic	0320		0324, 0333, 0339,	Reflex	0320		0012, 0026, 0060,
Oceanic	0321, 0347		0342, 0349, 0350,	Revox	0161, 0320, 0349,		0088, 0089, 0091,
Okano	0161, 0320, 0351		0353, 0357, 0360,		0350		0138, 0165, 0170,
Olevia	0102, 0199, 0200,		0380, 0383, 0452,	Rex	0337, 0346, 0347		0178, 0198, 0229,
	0207, 0222		0459, 0460	RFT	0161, 0168, 0339		0262, 0278, 0279,
ONCEAS	0342	Philips Magnavox	0011, 0032, 0033	Rhapsody	0277		0291, 0308, 0312,
Onwa	0058, 0179	Phoenix	0161, 0277, 0320,	R-Line	0320, 0349, 0350		0336, 0344, 0354,
Opera	0320		0339, 0349, 0350	Roadstar	0323, 0337, 0340,		0370, 0449, 0450,
Oppo	0130	Phonola	0277, 0320, 0339,		0343		0451, 0464, 0474,
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Orbit	0320, 0350		0095, 0161, 0320,	RTF	0339	Siarem	0320, 0339, 0341
Orion	0043, 0146, 0283,		0345, 0347, 0349,	Runco	0030, 0050, 0062	Sierra	0320, 0350
	0320, 0323, 0328,		0350, 0458	Saba	0298, 0322, 0339,	Siesta	0161
	0343, 0349, 0350	Plantron	0320, 0323, 0337,		0345, 0347	Signature	0054
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	0340, 0342	Polaroid	0039, 0142, 0202,	Salora	0346, 0347	Singer	0321, 0339, 0341
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Pael	0277, 0342	Prandoni-Prince		Jumanig	0007, 0008, 0012,	Sonitron	0161, 0282
Palladium	0161, 0282, 0320,	Precision	0282, 0342		0026, 0031, 0036,	Sonoko	0282, 0320, 0323,
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Palsonic	0282		0343, 0347		0077, 0079, 0114,		0349, 0350
Panama	0277, 0282, 0320,	Princeton	0140		0124, 0125, 0126,	Sonolor	0321, 0347
	0323, 0337, 0342,	Prism	0023, 0056		0127, 0139, 0161,	Sontec	0161, 0320, 0349,
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Panasonic	0016, 0017, 0020,	Profi-Tronic	0320, 0350		0191, 0258, 0264,	Sony	0038, 0044, 0045,
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	0052, 0056, 0084,	Proscan	0021, 0027, 0049		0323, 0334, 0337,		0105, 0107, 0110,
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Pausa	0323, 0343	Protron	0196		0070, 0071, 0099,		0058, 0059, 0179
Penney	0021, 0023, 0031,	PROVIEW	0096, 0246		0161, 0168, 0223,	Soundwave	0320, 0349, 0350
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Perfekt	0320	Pye	0256, 0320, 0349,		0342, 0344, 0369,	Standard	0282, 0320, 0323,
Philco	0008, 0009, 0010,		0350, 0378		0469		0340, 0342, 0343,
	0012, 0026, 0050,	Pymi	0323, 0343	SBR	0320, 0349		0350
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		RadioShack	0019, 0021, 0031,	Scott	0008, 0012, 0026,	Sunstar	0320, 0323
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		Kaurosnack/Re		C	0149, 0179	C1	0350
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		Radiola	0282, 0320, 0349,		0031, 0049, 0051,	SuperTech	0277, 0320, 0323
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Symphonic Synn T.D.E. Systems Tatung TCM Teac Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037,	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE	3074 3127 3084 3110 3084 3075 3123 3098 3107 typt 3111 ypt 3111 3097 3126 3022 3022 3100, 3101 3023 3070 3066, 3093	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT	nics 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049,	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cablect Filmnet Comcry Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC	3074 3127 3084 3110 3084 3075 3123 3098 3107 typt 3111 3097 3126 3022 3100, 3101 3023 3070 3066, 3093 3105	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung	nics 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002,
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072,	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118 2222 2240 2146 2213 2062 2002 2053	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini	3074 3127 3084 3110 3084 3075 3123 3098 3107 typt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT	nics 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028,
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2153, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078,	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106,	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cablect Filmnet Comcry Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123 aent	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT	nies 3126 3066, 3093 3122 swal Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086,
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2153, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145,	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118   Teler  2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123 eent 3017, 3025, 3066,	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT	nies 3126 3066, 3093 3122 swal Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095,
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233,	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118   Teler 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223,	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096,	Proscan Pulsar PVP Stereo Vis Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung SAT Scientific Atlanta	nics 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2334, 2336, 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296,	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118   Teler 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum	3074 3127 3084 3110 3084 3075 3123 3098 3107 typt 3111 ypt 3111 3097 3126 3022 3020 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096, 3117	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung SAT Scientific Atlanta	nics 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123
Symphonic Synn T.D.E. Systems Tatung TCM Teac Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson Tokai Top Suxess Toshiba	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296, 2369	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG Liteon	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2043	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum	3074 3127 3084 3110 3084 3075 3123 3098 3107 typt 3111 3097 3126 3022 3100, 3101 3023 3070, 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096, 3117 3120	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT Scientific Atlanta  Signal Signature	nics 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess Toshiba	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296, 2369 2363, 2367	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2043 2011, 2034, 2058,	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cableor Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070, 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096, 3117 3120 3099	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT Scientific Atlanta  Signal Signature Sony	nies 3126 3066, 3093 3122 stal Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066 3092, 3125
Symphonic Synn T.D.E. Systems Tatung TCM Teac Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson Tokai Top Suxess Toshiba	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2153 2362, 2367 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296, 2363, 2367 2367	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG Liteon	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2043	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum	3074 3127 3084 3110 3084 3075 3123 3098 3107 typt 3111 3097 3126 3022 3100, 3101 3023 3070, 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096, 3117 3120	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT Scientific Atlanta  Signal Signature Sony Sprucer	nies 3126 3066, 3093 3122 swal Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066 3092, 3125 3118
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess Toshiba	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296, 2369 2363, 2367	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG Liteon	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2043 2011, 2034, 2058,	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cableor Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070, 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096, 3117 3120 3099	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT Scientific Atlanta  Signal Signature Sony	nies 3126 3066, 3093 3122 swal Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066 3092, 3125 3118
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess Toshiba  TRANScontinents Transonic	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2153 2362, 2367 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296, 2363, 2367 2367	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG Liteon	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2043 2011, 2034, 2058, 2062, 2116, 2117,	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cableor Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096, 3117 3120 3099 3098, 3099	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT Scientific Atlanta  Signal Signature Sony Sprucer	nies 3126 3066, 3093 3122 swal Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066 3092, 3125 3118
Symphonic Synn T.D.E. Systems T.D.E. Systems Tatung TCM Teac Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson Tokai Top Suxess Toshiba  TRANScontinents Transonic Trio	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2153, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2049, 2049, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296, 2369 2363, 2367 2362	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG Liteon	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118   Teler 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2043 2011, 2034, 2058, 2062, 2116, 2117, 2119, 2120, 2121,	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096, 3117 3120 3099 3098, 3099 3073, 3078	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT Scientific Atlanta  Signal Signature Sony Sprucer	nics 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066 3092, 3125 3118 sonent
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess Toshiba  TRANScontinents Transonic Trio Trutech TruVision	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296, 2369 2363, 2367 2362 2242 2359	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG  Liteon Panasonic	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118   Tder  2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2043 2011, 2034, 2058, 2062, 2116, 2117, 2119, 2120, 2121, 2123 2008, 2044, 2050,	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum  Goldstar Gooding Grundig Hamlin Hirschmann Hitachi	3074 3127 3084 3110 3084 3075 3123 3098 3107 typt 3111 ypt 3111 3097 3126 3022 3020 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096, 3117 3120 3099 3098, 3099 3073, 3078 3097 3066	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung SAT Scientific Atlanta  Signal Signature Sony Sprucer Standard Comp	nics 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066 3092, 3125 3118 sonent 3115 3017, 3072, 3119,
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess Toshiba  TRANScontinents Transonic Trio Trutech TruVision TSM	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2183, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2236, 2369 2363, 2367 2367 2362 2242 2359 2364	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG Liteon Panasonic	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2043 2011, 2034, 2058, 2062, 2116, 2117, 2119, 2120, 2121, 2123 2008, 2044, 2050, 2051, 2147	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Filmnet Cableor Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum Goldstar Gooding Grundig Hamlin Hirschmann Hitachi HomeChoice	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070, 3103 3070, 3093 3105 3072, 3123 tent 3017, 3025, 3066, 3084, 3090, 3096, 3117 3120 3099 3098, 3099 3073, 3078 3097 3066 3106 3106 3107 3107 3108 3108 3109 3109 3109 3109 3109 3017 3025 3066, 3084 3099 3098 3073, 3078 3099 3073, 3078 3097 3066 3106 3106 3106 3107 3107 3108 3109 3109 3109 3109 3099 3098 3073, 3078 3099 3066 3106 3106 3106 3107 3108 3109 3109 3109 3109 3110 3106 3106 3106	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT Scientific Atlanta  Signal Signature Sony Sprucer Standard Comp	nies 3126 3066, 3093 3122 stal Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066 3092, 3125 3118 soment 3115 3017, 3072, 3119, 3123
Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess Toshiba  TRANScontinents Transonic Trio Trutech TruVision TSM Umax	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2153, 2188, 2334, 2372 2356, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296, 2363, 2367 2362 2242 2359 2364 2361	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG  Liteon Panasonic  Philips Pioneer	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118 2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2041, 2034, 2058, 2062, 2116, 2117, 2119, 2120, 2121, 2123 2008, 2044, 2050, 2051, 2147 2017, 2035	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cablect Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum Goldstar Gooding Grundig Hamlin Hirschmann Hitachi HomeChoice Humax	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123 3071, 3025, 3066, 3084, 3090, 3096, 3117 3120 3099 3098, 3099 3098, 3099 3098, 3099 3097 3066 3081 3097 3066 3098 3099 3098, 3099 3097 3066 3097 3066 3098, 3099 3098, 3099 3097 3066 3097 3066 3097 3066 3098, 3099 3098, 3099 3097 3066 3066 3072, 3123	Proscan Pulsar PVP Stereo Vis Quasar RadioShack RCA Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung SAT Scientific Atlanta  Signal Signature Sony Sprucer Starcom Starcom	nies 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066 3092, 3125 3118 soment 3115 3017, 3072, 3119, 3123 3072, 3123
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Symphonic Synn T.D.E. Systems Tatung TCM Teac  Tec Technics Technika Telefunken Tensai Tevion Theta Digital Thomson  Tokai Top Suxess Toshiba  TRANScontinents Transonic Trio Trutech TruVision TSM Umax United Urban Concepts	2178, 2230, 2239 2108, 2230 2355 2366 2001, 2362 2182, 2297 2149, 2333, 2355, 2383 2356 2151 2362, 2367 2353 2362 2182, 2355, 2357 2157 2157 2235, 2380 2364 2032, 2036, 2037, 2039, 2048, 2049, 2054, 2055, 2072, 2073, 2076, 2078, 2079, 2086, 2145, 2159, 2218, 2233, 2256, 2259, 2296, 2369 2363, 2367 2362 2242 2359 2364 2361 2367 32159	Philips Pioneer  RCA Samsung Sharp Sony Toshiba Yamaha  DVD recor Aspire Astar Broksonic Go Video Hitachi Insignia Irradio JVC  LG Liteon Panasonic  Philips Pioneer Pye Samsung	2116, 2117, 2119, 2120, 2122, 2123 2108, 2111 2016, 2017, 2018, 2019, 2092, 2094, 2095, 2109 2105 2113, 2219 2088, 2091 2084, 2085, 2087 2086 2089, 2118   TOER  2222 2240 2146 2213 2062 2002 2053 2100, 2101, 2106, 2107 2033, 2057, 2223, 2238 2043 2011, 2034, 2058, 2062, 2116, 2117, 2119, 2120, 2121, 2123 2008, 2044, 2050, 2051, 2147 2017, 2035 2144 2000, 2112, 2216	Contec Coolmax COX Cryptovision Director Eastern Everquest Fidelity Filmnet Cablect Filmnet Cablect Filmnet Comery Finlux Focus Foxtel France Telecom Freebox GC Electronics GE GEC Gemini General Instrum Goldstar Gooding Grundig Hamlin Hirschmann Hitachi HomeChoice Humax	3074 3127 3084 3110 3084 3075 3123 3098 3107 ypt 3111 ypt 3111 3097 3126 3022 3100, 3101 3023 3070 3066, 3093 3105 3072, 3123 3071, 3025, 3066, 3084, 3090, 3096, 3117 3120 3099 3098, 3099 3098, 3099 3098, 3099 3097 3066 3081 3097 3066 3098 3099 3098, 3099 3097 3066 3097 3066 3098, 3099 3098, 3099 3097 3066 3097 3066 3097 3066 3098, 3099 3098, 3099 3097 3066 3066 3072, 3123	Proscan Pulsar PVP Stereo Vis  Quasar RadioShack RCA  Realistic Recoton Regal Regency Rembrandt Runco Sagem Samsung  SAT Scientific Atlanta  Signal Signature Sony Sprucer Standard Comp	nics 3126 3066, 3093 3122 sual Matrix 3018 3122 3123, 3127 3030, 3031, 3087, 3118 3070 3126 3078 3075 3066 3122 3101 3069, 3089, 3114, 3120 3098 3000, 3001, 3002, 3003, 3006, 3028, 3029, 3081, 3086, 3089, 3094, 3095, 3108 3072, 3123 3066 3092, 3125 3118 sonent 3115 3017, 3072, 3119, 3123 3072, 3123 3072, 3123 3072, 3123 3072, 3123
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### Tape deck

Yamaha 5084, 5087

### LD player

Yamaha 2080

